

# STATE OF NEW JERSEY

Postemployment Benefits
Other Than Pension
Actuarial Valuation
July 20, 2010

Submitted by:

Aon Consulting 400 Atrium Drive Somerset, NJ 08873



Ms. Florence Sheppard Acting Director State of New Jersey Department of the Treasury Division of Pensions and Benefits 50 West State Street Trenton, New Jersey 08625-0299

#### Dear Florence:

This report presents the July 1, 2009 Actuarial Valuation results for the retiree health benefits provided through the *New Jersey State Health Benefits Program* ("the SHBP") and the School Employees' Health Benefits Program ("the SEHBP"). Collectively, these are referred to as "the Program." The purposes of this report are to:

- (1) Determine the Program's July 1, 2009 obligations;
- (2) Determine the Program's Fiscal Year Ending June 30, 2010 accrual as the standard is adopted for this Fiscal Year based on Governmental Accounting Standards Board Statement 43 (GASB 43); and
- (3) Provide information that may be helpful in future planning for the State of New Jersey.

The Program consists of the Health Benefits Program Fund, the Dental Benefits Program Fund, and the Prescription Drug Program Fund. The financial statements of the Funds are included in the financial statements of the State of New Jersey. This inclusion will satisfy the requirements of GASB 45 for the State of New Jersey as there are no postemployment benefits provided outside the SHBP.

This report contains both Governmental Activities and Business-Type Activities. For GASB 43 purposes, the Business-Type Activities are generated by the participation in the Program by Local Governmental employers.

A summary of the major results is shown in the Executive Summary, while the Principal Valuation Results Section provides more detail.

The Accounting Information Section summarizes GASB Other Postemployment Benefit (OPEB) accounting treatment including the Fiscal Year Ending June 30, 2010 Annual Required Contribution (ARC) and Annual OPEB Cost (AOC).

This report's costs and liabilities are based upon the data and plan provisions provided by the State of New Jersey Division of Pensions and Benefits, as summarized in the Demographic Information and Summary of Principal Plan Provisions Sections, respectively, and the funding method and actuarial assumptions outlined in the Methods and Assumptions Section of this report. This report presents our best estimate of the costs of the Plan in accordance with accepted actuarial principles and our understanding of GASB Statement 43.

Respectfully,

Aon Consulting, Inc.

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## **Executive Summary**

The Program provides medical, prescription drug, and Medicare Part B reimbursement to retirees and their covered dependents. The State of New Jersey pays a portion of the cost for retirees, spouses and dependents. All active employees who retire from the State of New Jersey and meet the eligibility criteria will receive these benefits.

The State of New Jersey also offers dental care to retirees. Since these benefits are completely paid for by the retirees, there is no GASB 43 liability for these benefits.

Results are shown for both Governmental Activities and Business-Type Activities. For GASB 43 purposes, the Business-Type Activities are generated by the participation in the SHBP by Local Governmental employers. The Division of Pensions and Benefits, in consultation with Aon, has determined that the Program is a Cost-Sharing plan for its Business-Type Activities participants. Governmental Activities are detailed by State and Local Educational (which is a State responsibility) components. Pursuant to various Public Law enactments over the years, primarily Chapter 126 PL 1992, PERS, ABP and TPAF members who retire from educational enterprises with 25 or more years of service or a disability retirement will have state-paid coverage. These individuals are not required to participate in the SHBP while active to receive retiree benefits. This summary identifies the value of benefits at July 1, 2009 and costs for the Fiscal Year Ending June 30, 2010 ("FYE2010"):





	GASB 43 results (\$ millions) 07/01/2009						
	Educational- State State Subtotal Local Total						
Actuarial Accrued Liability							
Active	\$13,039.4	\$22,844.7	\$35,884.1	\$6,310.0	\$42,194.1		
Retired	\$7,422.0	\$13,476.4	\$20,898.4	\$3,700.4	\$24,598.8		
Total	\$20,461.4	\$36,321.1	\$56,782.5	\$10,010.4	\$66,792.9		
7/1/09 - 6/30/10 FY Annual Required Contribution (ARC)*	\$1,676.0	\$2,992.5	\$4,668.5	\$802.1	\$5,470.6		
7/1/09 - 6/30/10 FY Annual OPEB Cost	\$1,707.4	\$3,042.4	\$4,749.8	\$816.2	\$5,566.0		
7/1/09 - 6/30/10 Expected Benefit Premiums	\$418.3	\$855.6	\$1,273.9	\$202.6	\$1,476.5		

<sup>\*</sup> The Annual Required Contribution reflects a 30-year, 4.0% annual increasing amortization of the Unfunded Actuarial Accrued Liability.



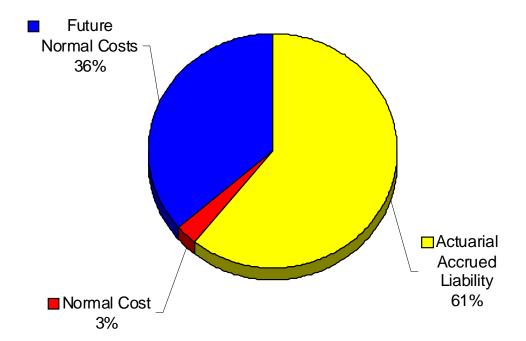


- The *Present Value of all Projected Benefits* is the total present value of all expected future benefits, based on certain actuarial assumptions. The Present Value of all projected benefits is a measure of total liability or obligation. Essentially, the Present Value of all projected benefits is the value (on the valuation date) of the benefits promised to current and future retirees.
- The *Actuarial Accrued Liability* is the liability or obligation for benefits earned through the valuation date, based on certain actuarial methods and assumptions. The Program's Actuarial Accrued Liability (at July 1, 2009) is \$66,792 million assuming no prefunding of obligations. The majority of this obligation is for active employees.
- Normal Cost is the value of benefits expected to be earned during the current year, again based on certain actuarial methods and assumptions. The 2009 Fiscal Year Normal Cost is \$2,850 million assuming no prefunding of obligations. In pension accounting, this is also known as "service cost."
- Future Normal Costs represent the present value of the remaining balance of all projected benefits to be earned in future years.





The following graph illustrates (for the scenario assuming no prefunding) the Present Value of all Projected Benefits, the yellow area representing the Actuarial Accrued Liability in total:







The results were calculated based upon plan provisions, as provided by the State of New Jersey, along with certain demographic and economic assumptions as recommended by Aon, in conjunction with the State of New Jersey with guidance from the GASB statement.

#### Demographic Assumptions

Data was provided by the State of New Jersey as of July 1, 2009. Demographic assumptions used to project the data are the same as those used to value the State of New Jersey's pension liabilities under GASB 25. There is no assumption for future new hires.

#### Economic Assumptions

The GASB statement requires that the discount rate used to determine the retiree healthcare liabilities should be the estimated long-term yield on the "investments that are expected to be used to finance the payments of benefits". Since the State of New Jersey does not currently pre-fund the retiree healthcare liabilities, the discount rate should be based on the portfolio of the State of New Jersey's "general assets" used to pay these benefits.

Historical monthly yields for this portfolio, as provided by the State of New Jersey, could suggest a 4.0% to 5.0% discount rate. Aon recommends the mid-point of the range suggested by the portfolio, 4.5%.

The trend assumption is used to project the growth of the expected claims over the lifetime of the healthcare recipients. The GASB statement does not require a particular source for information to determine healthcare trends, but it does recommend selecting a source that is "publicly available, objective and unbiased".

Aon developed the trend assumption utilizing the short term rates expected on the State of New Jersey plan along with information in published papers from other industry experts (actuaries, health economists, etc.). For medical benefits, this amount initially is at 9.5% or 8.5% (depending on the medical plan) and decreases to a 5.0% long-term trend rate for all medical benefits after nine years. For prescription drug benefits, the initial trend rate is 10.5%, decreasing to a 5.0% long-term trend rate after eleven years. For Medicare Part B reimbursement, the trend rate is 5.0%. This reflects the known underlying cost of the Part B premium.

The balance of this report provides greater detail for the above results.





## **Actuarial Certification**

This report presents the results of the Actuarial Valuation for the State of New Jersey Postemployment Benefits Other Than Pensions (the Plan) as of July 1, 2009 for development of accounting and financial reporting information under Statement No. 43 of the Governmental Accounting Standards Board.

This report has been prepared using generally accepted actuarial practices and methods. The actuarial assumptions (other than those strictly applicable to valuing the Plan, or as otherwise explicitly specified) used in the calculations are consistent with those used by the State of New Jersey's Actuary for the pension valuation for the state retirement systems. We have discussed Plan-specific assumptions with the State of New Jersey and believe them to be reasonable.

Aon Consulting did not audit employee data and did not validate the number of population changes due to retirements, terminations, new entrants, etc. from the prior year. Based on our review of the July 1, 2009 data, it is consistent with the July 1, 2008 employee data and appropriate for the purposes intended.

Actuarial computations under GASB 43 are for purposes of fulfilling governmental accounting requirements. The calculations reported herein have been made on a basis consistent with our understanding of the accounting standard. Determinations for purposes other than meeting governmental financial accounting requirements may be different from these results. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security at termination.

This report is intended for the sole use of the State of New Jersey. It is intended only to supply information for the State of New Jersey to comply with the stated purposes of the report and may not be appropriate for other purposes. Reliance on information contained in this report by anyone for other than the intended purposes, puts the relying entity at risk of being misled because of confusion or failure to understand applicable assumptions, methodologies, or limitations of the report's conclusions. Accordingly, no person or entity, including the State of New Jersey should base any representations or warranties in any business agreement on any statements or conclusions contained in this report without the written consent of Aon Consulting.

The actuaries whose signatures appear below are Members of the American Academy of Actuaries and together meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. They are available to answer any questions with regard to the matters enumerated in this report.

We further certify that this report is in compliance with Actuarial Standard of Practice No. 41, "Actuarial Communications".

Aon's relationship with the Plan and the State of New Jersey is strictly professional. There are no aspects of the relationship that may impair or appear to impair the objectivity of our work.

Thomas Vicente, FSA, EA, MAAA

Jan 1/wex

Michael Morfe, ASA, MAAA





# **Principal Valuation Results**

The following highlights the State of New Jersey's recognition of the above amounts:

- The July 1, 2009 assets are \$0.
- ➤ The FYE2010 Annual Required Contribution (ARC) is \$5,471 million.
- Expected benefit payments for the year ending June 30, 2010 are \$1,477 million.

The following table shows results by active, inactive and retired employee groups. The tables below contain both Governmental Activities and Business-Type Activities. For GASB 43 purposes, the Business-Type Activities are generated by the participation in the SHBP by Local Governmental employers. Governmental Activities are detailed by State and Local Educational (which is a State responsibility) components.

The Division of Pensions and Benefits, in consultation with Aon, has determined that the SHBP is a Cost-Sharing plan for its Business-Type Activities participants. Benefit risks are shared, contributions (premium payments) may legally be used to pay the benefits for any participating employer and the same contribution rates apply for each participating employer.

### A. Medical and Prescription Drug (\$ millions)

	(1) State	(2) Education- State	(3) Subtotal = (1) + (2)	(4) Local	Total = (3) + (4)
Actuarial Accrued Liability					
Active	\$11,704.6	\$20,023.8	\$31,728.4	\$5,772.6	\$37,501.0
Retirees	\$6,548.3	\$11,516.2	\$18,064.5	\$3,308.6	\$21,373.1
Total	\$18,252.9	\$31,540.0	\$49,792.9	\$9,081.2	\$58,874.1
Assets	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Unfunded Actuarial Accrued Liability	\$18,252.9	\$31,540.0	\$49,792.9	\$9,081.2	\$58,874.1
Normal Cost at beginning of year	\$786.3	\$1,379.7	\$2,166.0	\$376.7	\$2,542.7





# Principal Valuation Results (Continued)

## B. Medicare Part B Reimbursement (\$ millions)

	(1) State	(2) Education- State	(3) Subtotal = (1) + (2)	(4) Local	Total = (3) + (4)
Actuarial Accrued Liability					
Active	\$1,334.8	\$2,820.9	\$4,155.7	\$537.4	\$4,693.1
Retirees	\$873.7	\$1,960.2	\$2,833.9	\$391.8	\$3,225.7
Total	\$2,208.5	\$4,781.1	\$6,989.6	\$929.2	\$7,918.8
Assets	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Unfunded Actuarial Accrued Liability	\$2,208.5	. ,	\$6,989.6	\$929.2	\$7,918.8
Normal Cost at beginning of year	\$87.1	\$187.2	\$274.3	\$33.4	\$307.7

### C. Total (\$ millions)

	(1) State	(2) Education- State	(3) Subtotal = (1) + (2)	(4) Local	Total = (3) + (4)
Actuarial Accrued Liability					
Active	\$13,039.4	\$22,844.7	\$35,884.1	\$6,310.0	\$42,194.1
Retirees	\$7,422.0	\$13,476.4	\$20,898.4	\$3,700.4	\$24,598.8
Total	\$20,461.4	\$36,321.1	\$56,782.5	\$10,010.4	\$66,792.9
Assets	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Unfunded Actuarial Accrued Liability	\$20,461.4	\$36,321.1	\$56,782.5	\$10,010.4	\$66,792.9
Normal Cost at beginning of year	\$873.4	\$1,566.9	\$2,440.3	\$410.1	\$2,850.4





## **Accounting Information**

The effective date for the new GASB OPEB Accounting Standard is the Fiscal Year ending June 30, 2007. The following shows the Annual Required Contribution (ARC), Annual OPEB Cost (AOC), and projected June 30, 2010 Net OPEB Obligation (NOO), assuming the accounting standard is first adopted for the FYE2007.

#### **Annual Required Contribution (ARC)**

The Standard sets the method for determining the State of New Jersey's postemployment benefits accrual, the Annual Required Contribution (ARC), to include both the value of benefits earned during the year (Normal Cost) and an amortization of the Unfunded Actuarial Accrued Liability. Accordingly, the following table shows the State of New Jersey's FYE2010 Annual Required Contribution (ARC) based on a 30-year amortization of the Unfunded Actuarial Accrued Liability as an increasing 4.0% annual amortization. This increasing annual amortization is representative of amortizing on level percentage of payroll, as allowed by the Standard.

Fiscal Year Ending June 30, 2010 (\$ millions)								
	State	Education- State	Subtotal	Local	Total			
Normal Cost	\$912.6	\$1,637.4	\$2,550.0	\$428.6	\$2,978.6			
Unfunded Actuarial Accrued Liability Amortization	\$763.4	\$1,355.1	\$2,118.5	\$373.5	\$2,492.0			
Annual Required Contribution (ARC)	\$1,676.0	\$2,992.5	\$4,668.5	\$802.1	\$5,470.6			





**Annual OPEB Cost (AOC)** 

Fiscal Year Ending June 30, 2010 (\$ millions)							
		Education-					
	State	State	Subtotal	Local	Total		
Annual Required Contribution (ARC)	\$1,676.0	\$2,992.5	\$4,668.5	\$802.1	\$5,470.6		
Adjustment to Annual Required Contribution	\$31.4	\$49.9	\$81.3	\$14.1	\$95.4		
Total Annual OPEB Cost (AOC)	\$1,707.4	\$3,042.4	\$4,749.8	\$816.2	\$5,566.0		





### **Annual OPEB Cost Summary:**

### State & Education

Fiscal Year Ending	Annual OPEB Cost (\$ millions)	Percentage of Annual OPEB  Cost Contributed	Net OPEB Obligation (\$ millions) *
6/30/2007	\$4,948.0	21.5%	\$3,883.5
6/30/2008	\$4,276.8	25.0%	\$7,090.7
6/30/2009	\$4,676.1	25.4%	\$10,579.6
6/30/2010	\$4,749.8	27.9%	\$14,002.4

 Based on expected benefit payments plus Retiree Drug Subsidy for the applicable fiscal year end.

#### Local

	Annual		Net
Fiscal Year Ending	OPEB Cost (\$ millions)	Percentage of Annual OPEB Cost Contributed	OPEB Obligation (\$ millions) *
6/30/2007	\$892.2	20.8%	\$ 706.3
6/30/2008	\$753.5	23.9%	\$1,279.9
6/30/2009	\$723.7	23.4%	\$1,834.0
6/30/2010	\$816.2	25.6%	\$2,441.1

 Based on expected benefit payments plus Retiree Drug Subsidy for the applicable fiscal year end.





### Projected June 30, 2010 Net OPEB Obligation (NOO)

Based on the Annual OPEB Cost developed above, the following is the projected June 30, 2010 Net OPEB Obligation (NOO):

## State & Education

State & Education					
	Total (\$ millions)				
July 1, 2009 Net OPEB Obligation (NOO)	\$10,579.6				
Plus: Annual OPEB Cost (AOC)	\$4,749.8				
Less: Schedule of contributions from the employer and other contributing entities	\$1,327.0				
Equals: Expected June 30, 2010 Net OPEB Obligation (NOO) <sup>+</sup>	\$14,002.4				
+ Actual reserves would use actual 2010 FY benefit payments.					

### Local

	Total (\$ millions)				
July 1, 2009 Net OPEB Obligation (NOO)	\$1,834.0				
Plus: Annual OPEB Cost (AOC)	\$816.2				
Less: Schedule of contributions from the employer and other contributing entities	\$209.1				
Equals: Expected June 30, 2010 Net OPEB Obligation (NOO) <sup>+</sup>	\$2,441.1				
Actual reserves would use actual 2010 FY benefit payments.					





### **Required Supplementary Information**

Below is the projected schedule of funding progress:

## State & Education

Valuation Date	Actuarial Value of Assets (\$ millions)	Actuarial Accrued Liability - Projected Unit Credit (\$ millions)	Unfunded Actuarial Accrued Liability (\$ millions)	Funded Ratio	Covered Payroll	Actuarial Accrued Liability as a Percentage of Covered Payroll
	(a)	(b)	(b) - (a)	(a) / (b)	(c)	(b) - (a) / (c)
07/01/2006	\$0	\$58,059.0	\$58,059.0	0%	Not Available*	Not Available*
07/01/2007	\$0	\$50,649.5	\$50,649.5	0%	Not Available*	Not Available*
07/01/2008	\$0	\$55,913.5	\$55,913.5	0%	\$20,180.2	277.1%
07/01/2009	\$0	\$56,782.5	\$56,782.5	0%	\$20,794.4	273.1%

#### Local

Valuation Date	Actuarial Value of Assets (\$ millions)	Actuarial Accrued Liability - Projected Unit Credit (\$ millions)	Unfunded Actuarial Accrued Liability (\$ millions)	Funded Ratio	Covered Payroll	Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll (b) - (a) / (c)
07/01/2006	\$0	\$10,774.6	\$10,774.6	0%	Not Available*	Not Available*
07/01/2007	\$0	\$9,096.6	\$9,096.6	0%	Not Available*	Not Available*
07/01/2008	\$0	\$8,840.5	\$8,840.5	0%	\$2,411.7	366.6%
07/01/2009	\$0	\$10,010.4	\$10,010.4	0%	\$2,607.2	384.0%

<sup>\*</sup> Required disclosure at adoption of standard. Covered payroll not collected from the State of New Jersey for this initial analysis.





# 10-Year Payout Projection

Annual payments expected based on assumptions and contributions detailed in the Methods and Assumptions Section.

### I. Medical and Prescription Drug Claims (\$ millions)

Year Ending	State	Education- State	Subtotal	Local	Total
	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)
06/30/2010	\$382.7	\$759.6	\$1,142.3	\$187.3	\$1,329.6
06/30/2011	\$439.5	\$870.4	\$1,309.9	\$214.5	\$1,524.4
06/30/2012	\$496.6	\$972.1	\$1,468.7	\$242.0	\$1,710.7
06/30/2013	\$553.7	\$1,065.1	\$1,618.8	\$270.3	\$1,889.1
06/30/2014	\$616.3	\$1,159.2	\$1,775.5	\$301.2	\$2,076.7
06/30/2015	\$678.3	\$1,243.0	\$1,921.3	\$331.7	\$2,253.0
06/30/2016	\$737.0	\$1,321.6	\$2,058.6	\$361.2	\$2,419.8
06/30/2017	\$795.0	\$1,394.1	\$2,189.1	\$390.1	\$2,579.2
06/30/2018	\$847.7	\$1,460.7	\$2,308.4	\$417.2	\$2,725.6
06/30/2019	\$899.9	\$1,528.3	\$2,428.2	\$443.8	\$2,872.0

### II. Medicare Part B Reimbursement (\$ millions)

Year Ending	State	Education-State	Subtotal	Local	Total
	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)
06/30/2010	\$35.6	\$96.0	\$131.6	\$15.3	\$146.9
06/30/2011	\$39.7	\$108.1	\$147.8	\$16.9	\$164.7
06/30/2012	\$44.1	\$121.6	\$165.7	\$18.4	\$184.1
06/30/2013	\$49.3	\$137.0	\$186.3	\$20.2	\$206.5
06/30/2014	\$54.6	\$152.2	\$206.8	\$21.9	\$228.7
06/30/2015	\$60.2	\$168.4	\$228.6	\$23.8	\$252.4
06/30/2016	\$66.5	\$184.5	\$251.0	\$26.0	\$277.0
06/30/2017	\$72.8	\$200.2	\$273.0	\$28.3	\$301.3
06/30/2018	\$79.5	\$215.5	\$295.0	\$30.6	\$325.6
06/30/2019	\$86.2	\$229.3	\$315.5	\$33.0	\$348.5





# 10-Year Payout Projection (continued)

## III. Total (\$ millions)

Year Ending	State	Education- State	Subtotal	Local	Total
	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)
06/30/2010	\$418.3	\$855.6	\$1,273.9	\$202.6	\$1,476.5
06/30/2011	\$479.2	\$978.5	\$1,457.7	\$231.4	\$1,689.1
06/30/2012	\$540.7	\$1,093.7	\$1,634.4	\$260.4	\$1,894.8
06/30/2013	\$603.0	\$1,202.1	\$1,805.1	\$290.5	\$2,095.6
06/30/2014	\$670.9	\$1,311.4	\$1,982.3	\$323.1	\$2,305.4
06/30/2015	\$738.5	\$1,411.4	\$2,149.9	\$355.5	\$2,505.4
06/30/2016	\$803.5	\$1,506.1	\$2,309.6	\$387.2	\$2,696.8
06/30/2017	\$867.8	\$1,594.3	\$2,462.1	\$418.4	\$2,880.5
06/30/2018	\$927.2	\$1,676.2	\$2,603.4	\$447.8	\$3,051.2
06/30/2019	\$986.1	\$1,757.6	\$2,743.7	\$476.8	\$3,220.5

## IV. Medicare Part D Retiree Drug Subsidy (\$ millions)

Year Ending	State	Education- State	Subtotal	Local	Total
	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)
06/30/2010	\$15.4	\$37.7	\$53.1	\$6.5	\$59.6
06/30/2011	\$18.1	\$44.7	\$62.8	\$7.6	\$70.4
06/30/2012	\$21.0	\$52.6	\$73.6	\$8.7	\$82.3
06/30/2013	\$24.4	\$61.8	\$86.2	\$10.0	\$96.2
06/30/2014	\$28.1	\$71.4	\$99.5	\$11.3	\$110.8
06/30/2015	\$32.1	\$81.8	\$113.9	\$12.7	\$126.6
06/30/2016	\$36.4	\$92.5	\$128.9	\$14.3	\$143.2
06/30/2017	\$41.0	\$103.4	\$144.4	\$15.9	\$160.3
06/30/2018	\$45.7	\$114.1	\$159.8	\$17.6	\$177.4
06/30/2019	\$50.4	\$124.1	\$174.5	\$19.4	\$193.9





# 10-Year Projection of Annual OPEB Cost (AOC)

Projections assume a closed group population (i.e., no new hires).

State & Education

Fiscal Year	ARC	Adjustment to ARC*	Total AOC	Contributions	Net OPEB Obligation at end of FY
Ending	(\$ Millions)	(\$ Millions)	(\$ Millions)	(\$ Millions)	(\$ Millions)
6/30/2010	\$4,668.5	\$81.3	\$4,749.8	\$1,327.0	\$14,002.4
6/30/2011	\$4,926.3	\$107.7	\$5,033.9	\$1,520.5	\$17,516.0
6/30/2012	\$5,193.0	\$134.7	\$5,327.7	\$1,708.0	\$21,135.6
6/30/2013	\$5,469.6	\$162.5	\$5,632.1	\$1,891.4	\$24,876.4
6/30/2014	\$5,756.9	\$191.3	\$5,948.2	\$2,081.7	\$28,742.9
6/30/2015	\$6,055.5	\$221.0	\$6,276.5	\$2,263.8	\$32,755.7
6/30/2016	\$6,366.3	\$251.9	\$6,618.2	\$2,438.6	\$36,935.3
6/30/2017	\$6,690.6	\$284.0	\$6,974.6	\$2,606.6	\$41,303.3
6/30/2018	\$7,029.2	\$317.6	\$7,346.9	\$2,763.2	\$45,887.0
6/30/2019	\$7,383.7	\$352.9	\$7,736.6	\$2,918.3	\$50,705.3

### Local

Fiscal Year	ARC	Adjustment to ARC*	Total AOC	Contributions	Net OPEB Obligation at end of FY
Ending	(\$ Millions)	(\$ Millions)	(\$ Millions)	(\$ Millions)	(\$ Millions)
6/30/2010	\$802.1	\$14.1	\$816.2	\$209.1	\$2,441.1
6/30/2011	\$846.6	\$18.8	\$865.3	\$239.0	\$3,067.4
6/30/2012	\$892.7	\$23.6	\$916.3	\$269.2	\$3,714.5
6/30/2013	\$940.7	\$28.6	\$969.2	\$300.5	\$4,383.3
6/30/2014	\$990.4	\$33.7	\$1,024.1	\$334.4	\$5,073.0
6/30/2015	\$1,042.0	\$39.0	\$1,081.0	\$368.3	\$5,785.7
6/30/2016	\$1,095.5	\$44.5	\$1,140.0	\$401.5	\$6,524.3
6/30/2017	\$1,151.2	\$50.2	\$1,201.4	\$434.3	\$7,291.4
6/30/2018	\$1,209.2	\$56.1	\$1,265.2	\$465.4	\$8,091.2
6/30/2019	\$1,269.6	\$62.2	\$1,331.8	\$496.2	\$8,926.9

<sup>\*</sup>Including interest on Net OPEB Obligation





# GASB 45 Results

	(1) State	(2) Education- State	(3) Total = (1) + (2)
Actuarial Accrued Liability			
Active	\$13,039.4	\$22,844.7	\$35,884.1
Retirees	\$7,422.0	\$13,476.4	\$20,898.4
Total	\$20,461.4	\$36,321.1	\$56,782.5
Assets	\$0.0	\$0.0	\$0.0
Unfunded Actuarial Accrued Liability	\$20,461.4	\$36,321.1	\$56,782.5
Normal Cost at beginning of year	\$873.4	\$1,566.9	\$2,440.3

Fiscal Year Ending June 30, 2010 (\$ millions)						
	State	Education- State	Total			
Normal Cost	\$912.6	\$1,637.4	\$2,550.0			
Unfunded Actuarial Accrued Liability Amortization	\$763.4	\$1,355.1	\$2,118.5			
Annual Required Contribution (ARC)	\$1,676.0	\$2,992.5	\$4,668.5			

Fiscal Year Ending June 30, 2010 (\$ millions)						
		Education-				
	State	State	Total			
Annual Required Contribution (ARC)	\$1,676.0	\$2,992.5	\$4,668.5			
Adjustment to Annual Required Contribution	\$19.3	\$31.7	\$51.0			
Total Annual OPEB Cost (AOC)	\$1,695.3	\$3,024.2	\$4,719.5			





# GASB 45 Results (continued)

	Total (\$ millions)			
July 1, 2009 Net OPEB Obligation (NOO)	\$6,636.3			
Plus: Annual OPEB Cost (AOC)	\$4,719.5			
Less: Schedule of contributions from the employer and other contributing entities	\$1,327.0			
Equals: Expected June 30, 2010 Net OPEB Obligation (NOO) <sup>+</sup>	\$10,028.8			
+ Actual reserves would use actual 2010 FY benefit payments.				





# Demographic Information

The following tables summarize active and retiree demographic information.

	Pa	articipant Cou	nts		
Group	State	Education- State	Subtotal	Local	Total
<u>Actives</u>					
PERS General	80,518	98,934	179,452	31,115	210,567
PERS Law Enforcement	3	-	3	29	32
PERS Legislators	108	1	109	2	111
PERS Prosecutors	3	-	3	4	7
JRS	422	-	422	-	422
SPRS	3,108	-	3,108	-	3,108
TPAF	-	159,059	159,059	-	159,059
ABP	23,694	2,783	26,477	3	26,480
PFRS	7,697	31	7,728	12,054	19,782
Active Total	115,553	260,808	376,361	43,207	419,568
<u>Retirees</u>					
Single Coverage					
НМО	3,092	2,282	5,374	930	6,304
NJ Direct	12,343	27,776	40,119	4,999	45,118
Family Coverage					
НМО	3,994	4,117	8,111	1,939	10,050
NJ Direct	14,673	40,206	54,879	7,352	62,231
No Coverage	168	125	293	57	350
Retiree Total	34,270	74,506	108,776	15,277	124,053
<b>Spouses of Retirees Total</b>	18,667	44,323	62,990	9,291	72,281
<b>Grand Total</b>	168,490	379,637	548,127	67,775	615,902





# Demographic Information (continued)

Participant Counts							
Group	State	Education- State	Subtotal	Local	Total		
Actives							
% Female	56%	75%	69%	36%	66%		
% Male	44%	25%	31%	64%	34%		
Retirees							
% Female	49%	65%	60%	28%	56%		
% Male	51%	35%	40%	72%	44%		

Average Age							
Group	State Education- State		Subtotal	Local	Total		
Actives	46.04	46.17	46.13	45.90	46.10		
Retirees	67.59	69.55	68.93	66.83	68.68		

Average Service							
Group	State	Education- State	Subtotal	Local	Total		
Actives	12.63	12.14	12.29	13.61	12.43		
Retirees	N/A	N/A	N/A	N/A	N/A		

## **Age-Service Scatter**

	Service							
Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30+	Total
15-19	145	0	0	0	0	0	0	145
20-24	7,548	241	0	0	0	0	0	7,789
25-29	27,606	10,310	158	0	0	0	0	38,074
30-34	14,381	23,808	5,498	100	0	0	0	43,787
35-39	10,514	14,670	14,355	4,071	341	0	0	43,951
40-44	10,768	12,187	9,239	9,805	5,941	314	0	48,254
45-49	14,404	13,894	8,671	6,675	11,304	4,917	88	59,953
50-54	8,340	12,805	10,135	7,602	8,742	9,854	3,484	60,962
55-59	5,386	8,719	7,910	8,100	9,611	7,356	10,921	58,003
60-64	3,202	5,341	4,410	4,972	7,190	5,293	7,866	38,274
65-69	1,218	2,534	1,974	1,889	2,515	2,135	2,457	14,722
70+	452	916	809	823	981	665	1,008	5,654
Total	103,964	105,425	63,159	44,037	46,625	30,534	25,824	419,568





#### Plan Provisions

#### **Program Eligibility for Retired Group Coverage**

The following individuals will be offered Program's Retired Group coverage for themselves and their eligible dependents:

- Full-time State employees, employees of State colleges/universities, autonomous State
  agencies and commissions, or local employees who were covered by, or eligible for, the SHBP
  at the time of retirement.
- Part-time State employees and part-time faculty at institutions of higher education that participate in the SHBP if enrolled in the SHBP at the time of retirement.

The following subsections outline the eligibility for retirement (that would qualify a retiree for State-paid Program benefits) for the various groups of State employees. Service under multiple Retirement Systems can be aggregated for purposes of Program's benefit eligibility.

#### **Public Employees' Retirement System Members**

(i) In General for State-paid Benefits

Service Retirement Eligible at age 60 with 25 years of service.

Early Retirement Eligible after 25 years of service prior to age 60.

Ordinary Disability Eligible after 10 years of service and total and

Retirement permanent disability.

Accidental Disability Eligible upon total and permanent disability as a

result of a duty injury.

(ii) Law Enforcement (Chapter 330, P.L. 1997)

In General for State-paid Benefits

Service Retirement Eligible at age 55 after 25 years of service.

Chapter 4, P.L. 2001 Special

Retirement

Completion of 25 years of service

Ordinary Disability Eligible after 5 years of service and total and

permanent disability





#### (iii) Legislators

#### In General for State-paid Benefits

Service Retirement Eligible at age 60 and 25 years of service.

Early Retirement Attainment of 25 years of service prior to age 60.

**Ordinary Disability** 

Eligible after 10 years of service and total and permanent disability.

Retirement

permanent disability.

Accidental Disability Eligible upon total and permanent disability as a

result of a duty injury.

### (iv) Prosecutors Part (Chapter 366, P.L. 2001)

### In General for State-paid Benefits

Service Retirement Eligible after age 55 and 25 years of service.

Special Retirement After completion of 25 years of service.

Ordinary Disability

Eligible after 10 years of service and total and

Retirement

permanent disability.

Accidental Disability Eligible upon total and permanent disability as a

result of a duty injury.





(v) Workers' Compensation Judges Part (Chapter 259, P.L. 2001)

Service Retirement (A) Mandatory retirement at age 70. Voluntary retirement prior to age 70 as follows:

(a) Age 70 and 10 years of service as a Workers' Compensation Judge;

(b) Age 65 and 15 years of service as a Workers' Compensation Judge; or

(c) Age 60 and 20 years of service as a Workers' Compensation Judge.

(B) Age 65, with 5 consecutive years of service as a Workers' Compensation Judge and 15 years in the aggregate of public service; or

Age 60, with 5 consecutive years of service as a Workers' Compensation Judge and 20 years in the aggregate of public service.

In General for State-paid Benefits Attainment of 25 years of service and Service

Retirement eligibility.

Early Retirement Prior to age 60, with 5 consecutive years of service as a

Workers' Compensation Judge and 25 years or more in

the aggregate of public service.

Ordinary Disability Retirement Eligible after 10 years of service and total and

permanent disability

Accidental Disability Eligible upon total and permanent disability as a result

of a duty injury.





#### **Judicial Retirement System Members**

Chief Justice and associate justices of the Supreme Court, judges of the Superior Court and tax courts of the State of New Jersey.

Service Retirement (A) Mandatory retirement at age 70. Voluntary retirement prior to age 70 as follows:

(a) Age 70 and 10 years of judicial service;

(b) Age 65 and 15 years of judicial service; or

(c) Age 60 and 20 years of judicial service.

(B) Age 65 while serving as a judge, 5 consecutive years of judicial service and 15 years in the aggregate of public service; or

Age 60 while serving as a judge, 5 consecutive years of judicial service and 20 years in the aggregate of public service.

In General for State-paid Benefits Attainment of 25 years of service and Service

Retirement eligibility.

Early Retirement Prior to age 60 while serving as a judge, 5 consecutive

years of judicial service and 25 more years in the

aggregate of public service.

Disability Retirement Physically or otherwise incapacitated for a full and

efficient service to the State in a judicial capacity, and

such incapacity is likely to be permanent.

#### **State Police Retirement System Members**

All members of the former State Police and Benevolent Fund: full-time commissioned officers, non-commissioned officers or troopers of the Division of State Police. Membership is a condition of employment.

In General for State-paid Benefits

Service Retirement Mandatory retirement at age 55. Voluntary retirement

prior to age 55 with 25 years of credited service.





Ordinary Disability Retirement A Member is eligible for Ordinary Disability Retirement

if he (she) has 4 years of service and is totally and permanently incapacitated from the performance of

usual or available duties.

Accidental Disability Retirement A Member is eligible upon total and permanent

incapacitation as a direct result of a traumatic event occurring during and as a result of the performance of

regular or assigned duties.

#### **Teachers Pension and Annuity Fund Members**

Employees appointed to positions requiring certification as members of a regular teaching or professional staff of a public school system in New Jersey are required to enroll as a condition of employment. Employees of the Department of Education holding unclassified, professional and certified titles are eligible for membership. Temporary or substitute employees are not eligible.

In General for State-paid Benefits

Service Retirement Eligibility means age 60 with 25 years of service for

Program benefits.

Early Retirement A Member may retire after completion of 25 years of

Creditable Service.

Ordinary Disability Retirement A Member is eligible for Ordinary Disability Retirement

if he (she) has 10 years of Creditable Service and is totally and permanently incapacitated from the

performance of usual or available duties.

Accidental Disability Retirement A Member is eligible upon total and permanent

incapacitation as a direct result of a traumatic event occurring during and as a result of the performance of

regular or assigned duties.





#### **Alternate Benefit Program (ABP) Members**

Participants in the ABP who retire with at least 25 years of credited ABP service, or those who are on a long-term disability, will qualify for SHBP benefits.

#### Police and Firemen's Retirement System Members

Enrollment is restricted to eligible policemen and fireman who are permanent and full-time and who pass the physical and mental fitness requirements. The maximum enrollment age is 35.

In General for State-paid Benefits

Service Retirement Eligibility means age 55 and 25 years of service.

Mandatory at age 65.

Special Retirement After completion of 25 years of service.

Ordinary Disability Retirement A Member is eligible for Ordinary Disability Retirement

if he (she) has 4 years of Service and is totally and permanently incapacitated from the performance of

usual or available duties.

Accidental Disability Retirement A Member is eligible upon total and permanent

incapacitation from the performance of usual and available duties as a result of injury during the

performance of regular duties.

Special Disability Retirement A Member is eligible for Special Disability Retirement

if he (she) has 5 years of Credited Service, is under age

55, and has received a heart transplant.





Medical Plans		In-Network			0	ut-of-Network	
	Office Visit / ER Copay	Daductible	Coinsurance	Out-of- Pocket Maximum	Deductible	Coinsurance	Out-of- Pocket Maximum
HMO	\$10 / \$35	None	100%	None	ľ	Not Covered	
NJ Direct 10	\$10 / \$25	None	100%	\$400	\$100	80%	\$2,000
NJ Direct 15	\$15 / \$50	None	100%	\$400	\$100	70%	\$2,000

Rx Plans	Retail			Mail			
	Generic	Preferred Brand	Other Brand	Generic	Preferred Brand	Other Brand	Out-of- Pocket Maximum
HMO (Education)	\$5	\$10	\$20	\$5	\$15	\$25	\$1,130
HMO (State & Local)	\$5	\$11	\$21	\$5	\$16	\$26	\$1,160
NJ Direct (Education)	\$8	\$17	\$34	\$8	\$25	\$42	\$1,130
NJ Direct (State & Local)	\$9	\$19	\$38	\$9	\$29	\$48	\$1,160



### Recent Changes to Plan Provisions

The following plan provision changes have not been reflected in the valuation because they would not materially change the results:

#### **Establishment of Employee Contribution for SHBP/SEHBP Coverage**

Chapter 103, P.L. 2007 amended the State Health Benefits Program (SHBP) statutes to reflect changes to the program to be implemented as the result of binding collective negotiations agreements between the Executive branch and collective bargaining units representing State employees. There are two basic changes: (1) the creation and grant of authority to the State Health Benefits Commission to contract for the administration of preferred provider organizations (PPOs), and (2) the establishment of an employee contribution of 1.5% of the employee's base salary toward the cost of whatever type of SHBP coverage the employee has chosen. Reflecting discussions with the New Jersey Education Association, the law also established a School Employees' Health Benefits Program (SEHBP) through the School Employees' Health Benefits Act. The SEHBP provides health care benefits to active and retired education employees through PPOs and HMOs overseen by a new School Employees' Health Benefits Commission.

Chapter 103 also modified payment obligations for certain retirees. For State retirees who attain 25 or more years of service, and who retire on or after July 1, 2007, the contribution will be waived for a retiree who participates in the wellness program.

Chapter 2, P.L. 2010 requires active employees of the State, local governments, and boards of education to contribute 1.5 percent of base salary toward the cost of health care coverage under the SHBP and the SEHBP. Retirees of the State, local governments, and board of educations who become members of a State or locally-administered retirement system on or after May 21, 2010 would be required to pay 1.5 percent of their pension benefit toward the cost of health care coverage under the SHBP and the SEHBP. For State and local government employees and retirees and for board of education employees, an additional amount could be required through the collective negotiations process. The contribution required for new State employees in retirement will not be waived for a retiree who participates in the New Jersey Retirees' Wellness Program.

#### **Increased Retirement Age**

Raises the retirement age for a benefit without any reduction, from age 60 to age 62, for members of the TPAF and the PERS who became a member of one system or the other on or after the effective date of this law.

Members of either system who became members before July 1, 2007 may retire at age 55 years with 25 years of service or at age 60 with any number of years of service without a reduction in the amount of retirement allowance the members' receive. There is a reduction in such an allowance if the member is under 55 with 25 years of service. There is also a reduction in an allowance for members of either system who became members on or after July 1, 2007 and who retire between age 55 and 60 years with 25 or more years of service. If a person became a member on or after the effective date of this law, that person must be at least 62 years of age in order to retire without a reduction in their retirement allowance.





#### **Change in Eligibility for Membership**

The basis for membership in the Teachers' Pension and Annuity Fund (TPAF) and the PERS is shifted from the amount of compensation to the number of hours worked weekly. After the law's effective date, any person in public employment for which the hours of work are fixed at fewer than 35 per week for State employees, or 32 per week for political subdivision employees, is ineligible to become a new member of PERS and at fewer than 32 hours per week is ineligible to become a new member of TPAF. When determining eligibility, hours during which a person does not work due to the person's participation in a voluntary or mandatory furlough program will not be deducted in determining if a person's hours of work are fixed at fewer than 35 or 32 per week, as appropriate, for the purpose of eligibility.





## Methods and Assumptions

Actuarial Method Projected Unit Credit Cost Method

Service Cost Determined for each active employee as the Actuarial Present Value of

benefits allocated to the valuation year. The benefit attributed to the valuation year is that incremental portion of the total projected benefit earned during the year in accordance with the plan's benefit formula. This allocation is based on each individual's service between date of

hire and date of full benefit eligibility.

Actuarial Accrued Liability The Actuarial Present Value of Benefits allocated to all periods prior to

the valuation year.

**Discount Rate** As of July 1, 2009

- 4.50%

Medical Trend (all programs in these categories)

Medicare Medical assumed to increase with Medical trend.

Annual Rate of Increase						
To Fiscal Year beginning	NJ Direct %	HMOs %				
2010	8.5	9.5				
2011	8.0	9.0				
2012	7.5	8.5				
2013	7.0	8.0				
2014	6.5	7.5				
2015	6.0	7.0				
2016	5.5	6.5				
2017	5.0	6.0				
2018	5.0	5.5				
2019	5.0	5.0				
2020 and Later	5%	5%				





### Prescription Drug Trend (all programs in these categories)

Medicare Prescription Drug Subsidy assumed to increase with prescription drug trend. Subsidy does not reduce liability.

Annual Rate of Increase				
To Fiscal Year beginning	%			
2010	10.5			
2011	10.0			
2012	9.5			
2013	9.0			
2014	8.5			
2015	8.0			
2016	7.5			
2017	7.0			
2018	6.5			
2019	6.0			
2020	5.5			
2021 and Later	5%			

Medicare Part B premium reimbursement (includes provision for phase-in of AGI-based increased cost for premiums)

Annual Rate of Increase				
To Fiscal Year beginning	%			
2010	5.0			
2011	5.0			
2012	5.0			
2013	5.0			
2014	5.0			
2015	5.0			
2016	5.0			
2017	5.0			
2018	5.0			
2019	5.0			
2020	5.0			
2021 and Later	5%			





## Morbidity

### <u>Medical</u>

Expected medical claims are assumed to increase as participants age as follows:

Age	Annual Increase %
20-24	5.2%
25-29	3.2%
30-34	0.5%
35-39	1.0%
40-44	2.7%
45-49	3.8%
50-54	3.3%
55-59	3.6%
60-64	4.2%
65-69	3.0%
70-74	2.5%
75-79	2.0%
80-84	1.0%
85-89	0.5%
90+	0.0%





# Prescription Drug

Expected prescription drug claims are assumed to increase as participants age as follows.

Age	Annual Increase %
20-24	5.2%
25-29	3.2%
30-34	0.5%
35-39	1.0%
40-44	2.7%
45-49	3.8%
50-54	3.3%
55-59	3.6%
60-64	4.2%
65-69	3.0%
70-74	2.5%
75-79	2.0%
80-84	1.0%
85-89	0.5%
90+	0.0%





# **Starting Costs for Current Retirees**

		State Retirees							
		PPO (NJ Direct)		НМО					
	Medical	Rx	Retiree	Medical	Rx	Retiree			
Age	& Admin	Claims	Rx Subs	& Admin	Claims	Rx Subs			
25	\$ 3,396	\$ 897	\$ 0	\$ 3,923	\$ 883	\$ 0			
30	\$ 3,935	\$ 1,047	\$ 0	\$ 4,530	\$ 1,033	\$ 0			
35	\$ 4,035	\$ 1,077	\$ 0	\$ 4,642	\$ 1,061	\$ 0			
40	\$ 4,223	\$ 1,131	\$ 0	\$ 4,854	\$ 1,113	\$ 0			
45	\$ 4,791	\$ 1,291	\$ 0	\$ 5,493	\$ 1,270	\$ 0			
50	\$ 5,743	\$ 1,561	\$ 0	\$ 6,565	\$ 1,535	\$ 0			
55	\$ 6,719	\$ 1,837	\$ 0	\$ 7,665	\$ 1,806	\$ 0			
60	\$ 7,979	\$ 2,192	\$ 0	\$ 9,082	\$ 2,155	\$ 0			
65	\$ 1,728	\$ 2,234	(\$405)	\$ 1,659	\$ 2,686	(\$ 490)			
70	\$ 1,962	\$ 2,589	(\$470)	\$ 1,923	\$ 3,115	(\$ 569)			
75	\$ 2,187	\$ 2,929	(\$532)	\$ 2,176	\$ 3,525	(\$ 644)			
80	\$ 2,388	\$ 3,234	(\$588)	\$ 2,402	\$ 3,892	(\$ 711)			
85	\$ 2,497	\$ 3,399	(\$618)	\$ 2,525	\$ 4,091	(\$ 746)			
90	\$ 2,552	\$ 3,484	(\$633)	\$ 2,590	\$ 4,195	(\$ 766)			

			Education	n Retirees		
		PPO (NJ Direct)		НМО		
	Medical	Rx	Retiree	Medical	Rx	Retiree
Age	& Admin	Claims	Rx Subs	& Admin	Claims	Rx Subs
25	\$ 3,037	\$ 751	\$ 0	\$ 3,656	\$ 726	\$ 0
30	\$ 3,517	\$ 878	\$ 0	\$ 4,220	\$ 849	\$ 0
35	\$ 3,606	\$ 903	\$ 0	\$ 4,325	\$ 873	\$ 0
40	\$ 3,773	\$ 948	\$ 0	\$ 4,522	\$ 917	\$ 0
45	\$ 4,276	\$ 1,081	\$ 0	\$ 5,115	\$ 1,047	\$ 0
50	\$ 5,122	\$ 1,306	\$ 0	\$ 6,109	\$ 1,264	\$ 0
55	\$ 5,988	\$ 1,537	\$ 0	\$ 7,129	\$ 1,488	\$ 0
60	\$ 7,106	\$ 1,833	\$ 0	\$ 8,445	\$ 1,777	\$ 0
65	\$ 1,588	\$ 2,074	(\$ 377)	\$ 1,555	\$ 2,526	(\$ 462)
70	\$ 1,803	\$ 2,404	(\$ 437)	\$ 1,804	\$ 2,928	(\$ 536)
75	\$ 2,008	\$ 2,720	(\$ 494)	\$ 2,041	\$ 3,313	(\$ 606)
80	\$ 2,192	\$ 3,003	(\$ 545)	\$ 2,253	\$ 3,658	(\$ 669)
85	\$ 2,292	\$ 3,156	(\$ 574)	\$ 2,368	\$ 3,845	(\$ 704)
90	\$ 2,342	\$ 3,236	(\$ 589)	\$ 2,428	\$ 3,942	(\$ 724)





			ment Retirees			
		PPO (NJ Direct)		НМО		
	Medical	Rx	Retiree	Medic al	Rx	Retiree
Age	& Admin	Claims	Rx Subs	& Admin	Claims	Rx Subs
25	\$ 3,914	\$ 936	\$ 0	\$ 4,455	\$ 909	\$ 0
30	\$ 4,544	\$ 1,096	\$ 0	\$ 5,157	\$ 1,064	\$ 0
35	\$ 4,659	\$ 1,126	\$ 0	\$ 5,287	\$ 1,094	\$ 0
40	\$ 4,879	\$ 1,181	\$ 0	\$ 5,533	\$ 1,149	\$ 0
45	\$ 5,540	\$ 1,348	\$ 0	\$ 6,273	\$ 1,311	\$ 0
50	\$ 6,651	\$ 1,628	\$ 0	\$ 7,511	\$ 1,582	\$ 0
55	\$ 7,789	\$ 1,914	\$ 0	\$ 8,782	\$ 1,861	\$ 0
60	\$ 9,257	\$ 2,284	\$ 0	\$10,420	\$ 2,220	\$ 0
65	\$ 1,793	\$ 2,196	(\$ 396)	\$ 1,819	\$ 2,969	(\$ 537)
70	\$ 2,037	\$ 2,546	(\$ 459)	\$ 2,109	\$ 3,442	(\$ 623)
75	\$ 2,272	\$ 2,881	(\$ 519)	\$ 2,386	\$ 3,894	(\$ 705)
80	\$ 2,482	\$ 3,181	(\$ 573)	\$ 2,636	\$ 4,299	(\$ 778)
85	\$ 2,595	\$ 3,343	(\$ 603)	\$ 2,770	\$ 4,518	(\$ 818)
90	\$ 2,655	\$ 3,428	(\$ 618)	\$ 2,840	\$ 4,633	(\$ 838)

# Starting Costs for Future Retirees

	State Actives			Education Actives			Local Government Actives		
	SuperBlend			SuperBlend			SuperB lend		
	Medical	Rx	Retiree	Medic al	Rx	Retiree	Medical	Rx	Retiree
Age	& Admin	Claims	Rx Subs	& Admin	Claims	Rx S ubs	& Admin	Claims	Rx Subs
25	\$ 3,502	\$ 894	\$ 0	\$ 3,161	\$ 746	\$ 0	\$ 4,022	\$ 931	\$ 0
30	\$ 4,054	\$ 1,044	\$ 0	\$ 3,658	\$ 872	\$ 0	\$ 4,667	\$ 1,090	\$ 0
35	\$ 4,157	\$ 1,074	\$ 0	\$ 3,750	\$ 897	\$ 0	\$ 4,785	\$ 1,120	\$ 0
40	\$ 4,349	\$ 1,127	\$ 0	\$ 3,923	\$ 942	\$ 0	\$ 5,010	\$ 1,175	\$ 0
45	\$ 4,932	\$ 1,287	\$ 0	\$ 4,444	\$ 1,074	\$ 0	\$ 5,687	\$ 1,341	\$ 0
50	\$ 5,908	\$ 1,556	\$ 0	\$ 5,319	\$ 1,298	\$ 0	\$ 6,823	\$ 1,619	\$ 0
55	\$ 6,908	\$ 1,831	\$ 0	\$ 6,216	\$ 1,527	\$ 0	\$ 7,988	\$ 1,903	\$ 0
60	\$ 8,200	\$ 2,185	\$ 0	\$ 7,374	\$ 1,822	\$ 0	\$ 9,490	\$ 2,271	\$ 0
65	\$ 1,714	\$ 2,324	(\$ 422)	\$ 1,581	\$ 2,164	(\$ 394)	\$ 1,798	\$ 2,351	(\$ 424)
70	\$ 1,954	\$ 2,694	(\$ 490)	\$ 1,803	\$ 2,509	(\$ 457)	\$ 2,051	\$ 2,725	(\$ 492)
75	\$ 2,185	\$ 3,048	(\$ 554)	\$ 2,014	\$ 2,839	(\$ 516)	\$ 2,294	\$ 3,084	(\$ 556)
80	\$ 2,391	\$ 3,366	(\$ 613)	\$ 2,204	\$ 3,134	(\$ 570)	\$ 2,512	\$ 3,405	(\$ 614)
85	\$ 2,503	\$ 3,537	(\$ 644)	\$ 2,307	\$ 3,294	(\$ 600)	\$ 2,630	\$ 3,578	(\$ 646)
90	\$ 2,560	\$ 3,626	(\$ 660)	\$ 2,359	\$ 3,377	(\$ 616)	\$ 2,692	\$ 3,669	(\$ 662)

Medicare Part B reimbursements

Average rates \$100.17 per month





## **Retiree Contributions**

We will exclude from the valuation process those individuals who pay 100% of the plan cost.

For retirees receiving State-paid SHBP benefits, we will apply average contribution rates to the population. Based on the reporting in published SHBP financial reports, the average contributions are as follows:

State: 2% of cost Local: 5% of cost Educational: 0% of cost

# **Retiree Contributions for Current Retirees**

	St	ate	Educ	cation	Local Go	vernment
	PPO	НМО	PPO	НМО	PPO	НМО
	Employee	Employee	Employee	Employee	Employee	Employee
Age	Contributions	Contributions	Contributions	Contributions	Contributions	Contributions
25	(\$ 86)	(\$ 96)	\$ 0	\$ 0	(\$ 243)	(\$ 268)
30	(\$100)	(\$111)	\$ 0	\$ 0	(\$ 282)	(\$ 311)
35	(\$102)	(\$114)	\$ 0	\$ 0	(\$ 289)	(\$ 319)
40	(\$107)	(\$119)	\$ 0	\$ 0	(\$ 303)	(\$ 334)
45	(\$122)	(\$135)	\$ 0	\$ 0	(\$ 344)	(\$ 379)
50	(\$146)	(\$162)	\$ 0	\$ 0	(\$ 414)	(\$ 455)
55	(\$171)	(\$189)	\$ 0	\$ 0	(\$ 485)	(\$ 532)
60	(\$203)	(\$225)	\$ 0	\$ 0	(\$ 577)	(\$ 632)
65	(\$ 79)	(\$ 87)	\$ 0	\$ 0	(\$ 199)	(\$ 239)
70	(\$ 91)	(\$101)	\$ 0	\$ 0	(\$ 229)	(\$ 278)
75	(\$102)	(\$114)	\$ 0	\$ 0	(\$ 258)	(\$ 314)
80	(\$112)	(\$126)	\$ 0	\$ 0	(\$ 283)	(\$ 347)
85	(\$118)	(\$132)	\$ 0	\$ 0	(\$ 297)	(\$ 364)
90	(\$121)	(\$136)	\$ 0	\$ 0	(\$ 304)	(\$ 374)





## Retiree Contributions for Future Retirees

_	State	Education	Local Government
	Employee	Employee	Employee
Age	Contributions	Contributions	Contributions
25	(\$ 88)	\$ 0	(\$ 248)
30	(\$ 102)	\$ 0	(\$ 288)
35	(\$ 105)	\$ 0	(\$ 295)
40	(\$ 110)	\$ 0	(\$ 309)
45	(\$ 124)	\$ 0	(\$ 351)
50	(\$ 149)	\$ 0	(\$ 422)
55	(\$ 175)	\$ 0	(\$ 495)
60	(\$ 208)	\$ 0	(\$ 588)
65	(\$ 81)	\$ 0	(\$ 207)
70	(\$ 93)	\$ 0	(\$ 239)
75	(\$ 105)	\$ 0	(\$ 269)
80	(\$ 115)	\$ 0	(\$ 296)
85	(\$ 121)	\$ 0	(\$ 310)
90	(\$ 124)	\$ 0	(\$ 318)

## Data Assumptions

Age Difference/
% Married

Males are assumed to be 3 years older than females. 90% married. Married actives are assumed to choose family

coverage at retirement.

Spousal Coverage

Spouses are assumed to lose coverage upon the death of the former employee. While spouses may participate in the NJSHBP at an unsubsidized rate, we have assumed they will not participate.

Coverage

We assumed that:

- ➤ 100% of all retirees who currently have healthcare coverage will continue with the same coverage.
- Actives, upon retirement, will be assumed to have the following coverage blend

NJ Direct: 80%

HMO: 20%





Valuation Methodology and Terminology We have used GASB accounting methodology to determine the postretirement medical benefit obligations. GASB technical memorandum on Part D subsidy will be utilized as written. Retiree Drug Subsidy will NOT be shown as a reduction in plan sponsor

liability, but as a source of funding.

Amortization Period The amortization cost for the initial Unfunded Actuarial Accrued Liability is a level percentage of payroll, for a period of 30 years, with an assumption that payroll increases by 4% per year.

**Pre-Retirement** 

Mortality RP 2000 Combined Healthy Mortality Table\*

**Post-Retirement** 

Mortality RP 2000 Combined Healthy Mortality Table\*

**Disabled Mortality** RP 2000 Combined Healthy Mortality Table\*

**Rates of Retirement** Consistent with Pension Plan of participant

Rates of Withdrawal Consistent with Pension Plan of participant

Rates of Disability Consistent with Pension Plan of participant

Note: Alternate Benefit Program participants are assumed to follow Teachers Pension and Annuity Fund assumptions.

\* The RP-2000 mortality table (Retirement Plan 2000) was constructed by the Society of Actuaries as a follow-up to the Retirement Protection Act of 1994, from 11 million life-years of exposure and over 190,000 deaths. The mortality table was projected to the year 2000, and is the emerging standard in mortality tables for valuation purposes.





## Public Employees' Retirement System of New Jersey - State

					q <sub>x</sub> for cause:			
	Disa	ability			Withdrawal			Age 55 & 25
AGE	Ordinary	Accidental	1st Yr Service	2nd Yr Service	3rd Yr Service	4 - 9 Yrs Service	> 9 Yrs Service	Service or Age 60
19	0.00005	0.00001	0.22671	0.17586	0.12506	0.08500	0.00000	0.00000
20	0.00005	0.00001	0.22792	0.17692	0.12598	0.08500	0.00000	0.00000
21	0.00005	0.00001	0.22914	0.17799	0.12690	0.08500	0.00000	0.00000
22	0.00005	0.00001	0.23035	0.17905	0.12782	0.08500	0.00000	0.00000
23	0.00006	0.00001	0.23156	0.18012	0.12873	0.08377	0.00000	0.00000
24	0.00006	0.00001	0.23278	0.18118	0.12965	0.08377	0.00000	0.00000
25	0.00006	0.00001	0.23399	0.18225	0.13057	0.08377	0.00000	0.00000
26	0.00009	0.00001	0.23134	0.17992	0.12856	0.07749	0.00000	0.00000
27	0.00013	0.00002	0.22869	0.17759	0.12656	0.07121	0.00000	0.00000
28	0.00067	0.00002	0.22604	0.17527	0.12455	0.06579	0.00000	0.00000
29	0.00081	0.00003	0.22339	0.17294	0.12255	0.05942	0.00000	0.00000
30	0.00097	0.00003	0.22073	0.17061	0.12054	0.05306	0.00000	0.00000
31	0.00102	0.00004	0.21233	0.16323	0.11418	0.04994	0.00000	0.00000
32	0.00106	0.00005	0.20393	0.15585	0.10782	0.04682	0.00000	0.00000
33	0.00137	0.00007	0.19552	0.14847	0.10147	0.03889	0.03968	0.00000
34	0.00140	0.00008	0.18712	0.14109	0.09511	0.03611	0.03698	0.00000
35	0.00149	0.00009	0.17872	0.13371	0.08875	0.03333	0.03428	0.00000
36	0.00171	0.00010	0.17629	0.13158	0.08691	0.03333	0.03428	0.00000
37	0.00197	0.00010	0.17386	0.12945	0.08508	0.03333	0.03428	0.00000
38	0.00151	0.00011	0.17144	0.12732	0.08324	0.02499	0.02605	0.00000
39	0.00168	0.00011	0.16901	0.12519	0.08141	0.02499	0.02605	0.00000
40	0.00184	0.00012	0.16658	0.12306	0.07957	0.02499	0.02605	0.00000
41	0.00270	0.00012	0.16469	0.12140	0.07814	0.02333	0.02446	0.00000
42	0.00354	0.00012	0.16281	0.11975	0.07671	0.02167	0.02286	0.00000
43	0.00303	0.00012	0.16092	0.11809	0.07529	0.02037	0.02213	0.00000
44	0.00361	0.00012	0.15903	0.11643	0.07386	0.01868	0.02053	0.00000
45	0.00421	0.00012	0.15714	0.11477	0.07243	0.01699	0.01894	0.00000
46	0.00463	0.00013	0.15512	0.11300	0.07090	0.01699	0.02012	0.00000
47	0.00504	0.00013	0.15310	0.11122	0.06937	0.01699	0.02130	0.00000
48	0.00476	0.00014	0.15108	0.10945	0.06784	0.01400	0.01995	0.00000





## Public Employees' Retirement System of New Jersey - State

					q <sub>x</sub> for cause:			
	Disa	bility			Withdrawal			Age 55 & 25
AGE	Ordinary	or Age 60	1st Yr Service	2nd Yr Service	3rd Yr Service	4 - 9 Yrs Service	> 9 Yrs Service	Service or Age 60
49	0.00512	0.00014	0.14906	0.10767	0.06631	0.01400	0.02123	0.00000
50	0.00549	0.00015	0.14703	0.10590	0.06478	0.01400	0.02251	0.00000
51	0.00588	0.00018	0.14577	0.10479	0.06383	0.01400	0.02261	0.00000
52	0.00625	0.00021	0.14452	0.10369	0.06288	0.01400	0.02271	0.00000
53	0.00667	0.00024	0.14326	0.10258	0.06192	0.01400	0.02188	0.00000
54	0.00705	0.00027	0.14200	0.10148	0.06097	0.01400	0.02197	0.00000
55	0.00744	0.00030	0.14074	0.10037	0.06002	0.01400	0.02206	0.15400
56	0.00842	0.00029	0.23983	0.18738	0.13499	0.01400	0.02206	0.11200
57	0.00942	0.00028	0.33893	0.27439	0.20996	0.01400	0.02206	0.11200
58	0.01308	0.00027	0.43802	0.36140	0.28493	0.01400	0.02248	0.11200
59	0.01433	0.00026	0.53711	0.44841	0.35990	0.01400	0.02248	0.21000
60	0.01559	0.00025	0.00000	0.00000	0.00000	0.00000	0.00000	0.08800
61	0.01571	0.00028	0.00000	0.00000	0.00000	0.00000	0.00000	0.08800
62	0.01581	0.00031	0.00000	0.00000	0.00000	0.00000	0.00000	0.18000
63	0.01551	0.00034	0.00000	0.00000	0.00000	0.00000	0.00000	0.14000
64	0.01561	0.00037	0.00000	0.00000	0.00000	0.00000	0.00000	0.15000
65	0.01573	0.00040	0.00000	0.00000	0.00000	0.00000	0.00000	0.23100
66	0.01661	0.00043	0.00000	0.00000	0.00000	0.00000	0.00000	0.18000
67	0.01751	0.00046	0.00000	0.00000	0.00000	0.00000	0.00000	0.15000
68	0.01841	0.00049	0.00000	0.00000	0.00000	0.00000	0.00000	0.15000
69	0.01929	0.00052	0.00000	0.00000	0.00000	0.00000	0.00000	0.15000
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000





## Public Employees' Retirement System of New Jersey - Local

					q <sub>x</sub> for cause:			
	Disa	bility			Withdrawal			Age 55 & 25
AGE	Ordinary	Accidental	1st Yr Service	2nd Yr Service	3rd Yr Service	4 - 9 Yrs Service	> 9 Yrs Service	Service or Age 60
HGE	Orumary	Heerachtar	15t 11 bet vice	Ziid II Selvice	ord II berviec	1 7 115 Service	> > TIS BET VICE	of fige ou
19	0.00000	0.00001	0.24450	0.18579	0.12703	0.10081	0.00000	0.00000
20	0.00000	0.00001	0.24551	0.18670	0.12785	0.10081	0.00000	0.00000
21	0.00000	0.00001	0.24652	0.18762	0.12866	0.09973	0.00000	0.00000
22	0.00000	0.00001	0.24753	0.18853	0.12948	0.09865	0.00000	0.00000
23	0.00000	0.00001	0.24854	0.18944	0.13029	0.10258	0.00000	0.00000
24	0.00000	0.00001	0.24954	0.19035	0.13111	0.10145	0.00000	0.00000
25	0.00000	0.00001	0.25055	0.19126	0.13193	0.10032	0.00000	0.00000
26	0.00000	0.00001	0.24420	0.18551	0.12678	0.09698	0.00000	0.00000
27	0.00000	0.00001	0.23784	0.17977	0.12164	0.09366	0.00000	0.00000
28	0.00034	0.00004	0.23149	0.17402	0.11649	0.08162	0.00000	0.00000
29	0.00041	0.00004	0.22514	0.16827	0.11135	0.07861	0.00000	0.00000
30	0.00049	0.00004	0.21878	0.16252	0.10620	0.07561	0.07674	0.00000
31	0.00054	0.00004	0.21322	0.15749	0.10170	0.07158	0.07272	0.00000
32	0.00058	0.00004	0.20765	0.15245	0.09719	0.06755	0.06871	0.00000
33	0.00112	0.00003	0.20209	0.14742	0.09268	0.04574	0.04691	0.00000
34	0.00121	0.00003	0.19652	0.14239	0.08818	0.04284	0.04403	0.00000
35	0.00129	0.00003	0.19096	0.13735	0.08367	0.03995	0.04115	0.00000
36	0.00168	0.00004	0.18929	0.13585	0.08232	0.03914	0.04040	0.00000
37	0.00207	0.00005	0.18763	0.13434	0.08098	0.03834	0.03966	0.00000
38	0.00208	0.00007	0.18596	0.13283	0.07963	0.03584	0.03768	0.00000
39	0.00241	0.00008	0.18430	0.13133	0.07828	0.03507	0.03699	0.00000
40	0.00273	0.00009	0.18263	0.12982	0.07693	0.03430	0.03630	0.00000
41	0.00286	0.00009	0.18145	0.12875	0.07597	0.03353	0.03565	0.00000
42	0.00295	0.00009	0.18026	0.12768	0.07502	0.03276	0.03500	0.00000
43	0.00332	0.00008	0.17908	0.12661	0.07406	0.03199	0.03435	0.00000
44	0.00342	0.00008	0.17790	0.12554	0.07310	0.03122	0.03370	0.00000
45	0.00354	0.00008	0.17671	0.12447	0.07214	0.03045	0.03305	0.00000
46	0.00401	0.00008	0.17536	0.12324	0.07104	0.02893	0.03263	0.00000
47	0.00447	0.00008	0.17400	0.12201	0.06994	0.02741	0.03221	0.00000
48	0.00402	0.00013	0.17264	0.12078	0.06884	0.02588	0.03119	0.00000





## Public Employees' Retirement System of New Jersey – Local

				q <sub>x</sub> for cau	ise:			Age 55 & 25
	Disa	bility	Withdrawal					Service
AGE	Ordinary	Accidental	1st Yr Service	2nd Yr Service	3rd Yr Service	4 - 9 Yrs Service	> 9 Yrs Service	or Age 60
49	0.00440	0.00013	0.17128	0.11955	0.06774	0.02436	0.03066	0.00000
50	0.00479	0.00013	0.16992	0.11832	0.06664	0.02284	0.03013	0.00000
51	0.00528	0.00013	0.16909	0.11757	0.06597	0.02242	0.03059	0.00000
52	0.00578	0.00013	0.16826	0.11682	0.06529	0.02200	0.03105	0.00000
53	0.00631	0.00013	0.16742	0.11607	0.06462	0.01963	0.02957	0.00000
54	0.00681	0.00013	0.16659	0.11531	0.06395	0.01925	0.03007	0.00000
55	0.00731	0.00013	0.16576	0.11456	0.06327	0.01887	0.03057	0.11700
56	0.00714	0.00013	0.16756	0.11618	0.06473	0.01887	0.03057	0.11700
57	0.00694	0.00013	0.16937	0.11783	0.06620	0.01887	0.03057	0.11700
58	0.00968	0.00021	0.17119	0.11947	0.06767	0.01887	0.03057	0.11700
59	0.00941	0.00021	0.17299	0.12110	0.06913	0.01887	0.03057	0.28600
60	0.00917	0.00021	0.00000	0.00000	0.00000	0.00000	0.00000	0.07800
61	0.00940	0.00021	0.00000	0.00000	0.00000	0.00000	0.00000	0.08400
62	0.00963	0.00025	0.00000	0.00000	0.00000	0.00000	0.00000	0.16800
63	0.00915	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.10500
64	0.00936	0.00019	0.00000	0.00000	0.00000	0.00000	0.00000	0.10500
65	0.00957	0.00019	0.00000	0.00000	0.00000	0.00000	0.00000	0.22050
66	0.01008	0.00019	0.00000	0.00000	0.00000	0.00000	0.00000	0.15750
67	0.01059	0.00019	0.00000	0.00000	0.00000	0.00000	0.00000	0.13650
68	0.01111	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.11550
69	0.01161	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.11550
70	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000





## ${\bf Public\ Employees'\ Retirement\ System\ of\ New\ Jersey\ -\ Prosecutor's\ Part\ (State)}$

		$q_x$ fo	or cause:	
		Prosecutors'	Part Retirement	
AGE	<20 Yrs Service	20 Yrs Service	21 - 24 Yrs Service	> 24 Yrs Service
35	0.00000	0.00000	0.00000	0.00000
36	0.00000	0.00000	0.00000	0.00000
37	0.00000	0.00000	0.00000	0.00000
38	0.00000	0.00000	0.00000	0.00000
39	0.00000	0.00000	0.00000	0.00000
40	0.00000	0.02500	0.00000	0.00152
41	0.00000	0.02500	0.00000	0.00162
42	0.00000	0.02500	0.00000	0.00171
43	0.00000	0.02500	0.00000	0.00181
44	0.00000	0.02500	0.00000	0.00190
45	0.00000	0.02500	0.00000	0.00200
46	0.00000	0.02500	0.00000	0.00321
47	0.00000	0.02500	0.00000	0.00443
48	0.00000	0.03750	0.00000	0.00594
49	0.00000	0.03750	0.00000	0.00722
50	0.00000	0.03750	0.00000	0.00850
51	0.00000	0.03750	0.00000	0.00860
52	0.00000	0.03750	0.00000	0.00870
53	0.00000	0.05000	0.00000	0.00836
54	0.00000	0.05000	0.00000	0.00846
55	0.02585	0.05000	0.00000	0.15400
56	0.02585	0.05000	0.00000	0.11200
57	0.02585	0.05000	0.00000	0.11200
58	0.02630	0.05000	0.00000	0.11200
59	0.02630	0.05000	0.00000	0.21000
60	0.02630	0.05000	0.00000	0.08800
61	0.02630	0.05000	0.00000	0.08800
62	0.02630	0.15000	0.00000	0.18000
63	0.02630	0.15000	0.00000	0.14000
64	0.02630	0.37500	0.00000	0.15000
65	0.02630	0.37500	0.00000	0.23100
66	0.02630	0.37500	0.00000	0.18000
67	0.02630	0.37500	0.00000	0.15000
68	0.02630	0.37500	0.00000	0.15000
69	0.02630	0.37500	0.00000	0.15000
70	1.00000	1.00000	1.00000	1.00000





## $Public\ Employees'\ Retirement\ System\ of\ New\ Jersey\ -\ Prosecutor's\ Part\ (Local)$

		$q_x$ fo	or cause:	
		Prosecutors'	Part Retirement	
AGE	<20 Yrs Service	20 Yrs Service	21 - 24 Yrs Service	> 24 Yrs Service
35	0.00000	0.00000	0.00000	0.00000
36	0.00000	0.00000	0.00000	0.00000
37	0.00000	0.00000	0.00000	0.00000
38	0.00000	0.00000	0.00000	0.00000
39	0.00000	0.00000	0.00000	0.00000
40	0.00000	0.02500	0.00000	0.00200
41	0.00000	0.02500	0.00000	0.00212
42	0.00000	0.02500	0.00000	0.00224
43	0.00000	0.02500	0.00000	0.00236
44	0.00000	0.02500	0.00000	0.00248
45	0.00000	0.02500	0.00000	0.00260
46	0.00000	0.02500	0.00000	0.00370
47	0.00000	0.02500	0.00000	0.00480
48	0.00000	0.03750	0.00000	0.00531
49	0.00000	0.03750	0.00000	0.00630
50	0.00000	0.03750	0.00000	0.00729
51	0.00000	0.03750	0.00000	0.00817
52	0.00000	0.03750	0.00000	0.00905
53	0.00000	0.05000	0.00000	0.00994
54	0.00000	0.05000	0.00000	0.01082
55	0.03060	0.05000	0.00000	0.11700
56	0.03060	0.05000	0.00000	0.11700
57	0.03060	0.05000	0.00000	0.11700
58	0.03060	0.05000	0.00000	0.11700
59	0.03060	0.05000	0.00000	0.28600
60	0.03060	0.05000	0.00000	0.07800
61	0.03060	0.05000	0.00000	0.08400
62	0.03060	0.15000	0.00000	0.16800
63	0.03060	0.15000	0.00000	0.10500
64	0.03060	0.37500	0.00000	0.10500
65	0.03060	0.37500	0.00000	0.22050
66	0.03060	0.37500	0.00000	0.15750
67	0.03060	0.37500	0.00000	0.13650
68	0.03060	0.37500	0.00000	0.11550
69	0.03060	0.37500	0.00000	0.11550
70	1.00000	1.00000	1.00000	1.00000





Judicial Retirement System of New Jersey

Judicial Retirement System of New Jersey										
			q <sub>x</sub> for cause:							
		> 11 YRS	60 & 20 Yrs JS*	Ultimate						
AGE	Disability	OF JS*	or 65 & 15 Yrs JS*	Retirement						
19	0.000180	0.000000	0.000000	0.000000						
20	0.000190	0.000000	0.000000	0.000000						
21	0.000200	0.000000	0.000000	0.000000						
22	0.000200	0.000000	0.000000	0.000000						
23	0.000200	0.000000	0.000000	0.000000						
24	0.000210	0.000000	0.000000	0.000000						
25	0.000210	0.000000	0.000000	0.000000						
26	0.000210	0.000000	0.000000	0.000000						
27	0.000210	0.000000	0.000000	0.000000						
28	0.000220	0.000000	0.000000	0.000000						
29	0.000220	0.000000	0.000000	0.000000						
30	0.000220	0.000000	0.000000	0.000000						
31	0.000230	0.000000	0.000000	0.000000						
32	0.000240	0.000000	0.000000	0.000000						
33	0.000240	0.000000	0.000000	0.000000						
34	0.000260	0.000000	0.000000	0.000000						
35	0.000260	0.000000	0.000000	0.000000						
36	0.000280	0.000000	0.000000	0.000000						
37	0.000280	0.000000	0.000000	0.000000						
38	0.000300	0.000000	0.000000	0.000000						
39	0.000300	0.000000	0.000000	0.000000						
40	0.000330	0.000000	0.000000	0.000000						
41	0.000360	0.000000	0.000000	0.000000						
42	0.000430	0.000000	0.000000	0.000000						
43	0.000470	0.000000	0.000000	0.000000						
44	0.000540	0.000000	0.000000	0.000000						
45	0.000640	0.000000	0.000000	0.000000						
46	0.000710	0.000000	0.000000	0.000000						
47	0.000800	0.000000	0.000000	0.000000						
48	0.000910	0.000000	0.000000	0.000000						
49	0.001020	0.000000	0.000000	0.000000						
50	0.001140	0.000000	0.000000	0.000000						
51	0.001260	0.000000	0.000000	0.000000						
52	0.001420	0.000000	0.000000	0.000000						
53	0.001570	0.000000	0.000000	0.000000						
54	0.001770	0.000000	0.000000	0.000000						
55	0.001970	0.000000	0.000000	0.000000						
56	0.002180	0.000000	0.000000	0.000000						
57	0.002180	0.000000	0.000000	0.000000						
58	0.002690	0.000000	0.000000	0.000000						
59	0.002960	0.000000	0.000000	0.000000						
60	0.003260	0.000000	0.300000	0.000000						
61	0.003540	0.000000	0.200000	0.000000						
62	0.003830	0.000000	0.200000	0.000000						
63	0.004120	0.000000	0.200000	0.000000						
64	0.004420	0.000000	0.200000	0.000000						
65	0.004730	0.250000	0.250000	0.000000						
66	0.005100	0.000000	0.200000	0.000000						
67	0.005500	0.000000	0.200000	0.000000						
68	0.005990	0.000000	0.200000	0.000000						
69	0.006520	0.000000	0.200000	0.000000						
70	0.000000	0.000000	0.000000	1.000000						





## State Police Retirement System of New Jersey

					q <sub>x</sub> for caus	e:			
	Disa	bility	With	drawal		Retirement	(Ultimate Retiremen	nt at age 55)	
AGE	Ordinary	Accidental	< 5 Service	4 <service<20< th=""><th>Service = 20</th><th>Service = 21</th><th>21<service<25< th=""><th>Service = 25</th><th>Service &gt; 25</th></service<25<></th></service<20<>	Service = 20	Service = 21	21 <service<25< th=""><th>Service = 25</th><th>Service &gt; 25</th></service<25<>	Service = 25	Service > 25
19	0.00039	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	0.00039	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
21	0.00039	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	0.00050	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
23	0.00050	0.00020	0.00825	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
24	0.00050	0.00020	0.00825	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	0.00059	0.00025	0.00825	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
26	0.00059	0.00025	0.00825	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
27	0.00069	0.00025	0.00825	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
28	0.00069	0.00030	0.00500	0.00400	0.00000	0.00000	0.00000	0.00000	0.00000
29	0.00078	0.00030	0.00500	0.00400	0.00000	0.00000	0.00000	0.00000	0.00000
30	0.00087	0.00035	0.00500	0.00400	0.00000	0.00000	0.00000	0.00000	0.00000
31	0.00087	0.00035	0.00500	0.00400	0.00000	0.00000	0.00000	0.00000	0.00000
32	0.00098	0.00040	0.00500	0.00400	0.00000	0.00000	0.00000	0.00000	0.00000
33	0.00107	0.00045	0.00825	0.00100	0.00000	0.00000	0.00000	0.00000	0.00000
34	0.00117	0.00045	0.00825	0.00100	0.00000	0.00000	0.00000	0.00000	0.00000
35	0.00117	0.00050	0.00825	0.00100	0.00000	0.00000	0.00000	0.00000	0.00000
36	0.00126	0.00050	0.00825	0.00100	0.00000	0.00000	0.00000	0.00000	0.00000
37	0.00137	0.00055	0.00825	0.00100	0.02000	0.00500	0.00000	0.00000	0.05000
38	0.00146	0.00060	0.00000	0.00150	0.02000	0.00500	0.00000	0.25000	0.05000
39	0.00167	0.00065	0.00000	0.00150	0.02000	0.00500	0.00000	0.25000	0.05000
40	0.00176	0.00070	0.00000	0.00150	0.02000	0.00500	0.00000	0.25000	0.05000
41	0.00195	0.00080	0.00000	0.00150	0.02000	0.00500	0.00000	0.25000	0.05000
42	0.00215	0.00090	0.00000	0.00150	0.02000	0.00500	0.00000	0.25000	0.05000
43	0.00245	0.00100	0.00000	0.00200	0.02000	0.00500	0.00000	0.20000	0.05000
44	0.00273	0.00115	0.00000	0.00200	0.02000	0.00500	0.00000	0.20000	0.05000
45	0.00312	0.00130	0.00000	0.00200	0.02000	0.00500	0.00000	0.20000	0.05000
46	0.00360	0.00145	0.00000	0.00200	0.02000	0.00500	0.00000	0.20000	0.05000
47	0.00401	0.00165	0.00000	0.00200	0.02000	0.00500	0.00000	0.20000	0.05000





## State Police Retirement System of New Jersey

					q <sub>x</sub> for caus	e:				
	Disability Withdrawal				Retirement (Ultimate Retirement at age 55)					
AGE	Ordinary	Accidental	< 5 Service	4 <service<20< th=""><th>Service = 20</th><th>Service = 21</th><th>21<service<25< th=""><th>Service = 25</th><th>Service &gt; 25</th></service<25<></th></service<20<>	Service = 20	Service = 21	21 <service<25< th=""><th>Service = 25</th><th>Service &gt; 25</th></service<25<>	Service = 25	Service > 25	
48	0.00449	0.00180	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.15000	
49	0.00488	0.00200	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.15000	
50	0.00536	0.00220	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.15000	
51	0.00585	0.00240	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.15000	
52	0.00633	0.00260	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.15000	
53	0.00672	0.00275	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.22000	
54	0.00722	0.00295	0.00000	0.00000	0.02000	0.00500	0.00000	0.20000	0.22000	
55	0.00000	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	1.00000	





#### Rates of Termination - Male

# Less than 10 Years of Employment

## 10 or more Years of Employment

Years of			With	Contribution		
<b>Employment</b>	Rate	<u>Age</u>	<b>Benefit</b>	Refund		
0	0.0829	25	0.0083	0.0055		
1	0.0636	26	0.0083	0.0055		
2	0.0561	27	0.0083	0.0055		
3	0.0418	28	0.0083	0.0055		
4	0.0344	29	0.0083	0.0055		
5	0.0290					
6	0.0253	30	0.0083	0.0055		
7	0.0219	31	0.0083	0.0055		
8	0.0165	32	0.0083	0.0055		
9	0.0145	33	0.0078	0.0052		
		34	0.0073	0.0049		
		35	0.0068	0.0046		
		36	0.0063	0.0043		
		37	0.0058	0.0039		
		38	0.0054	0.0036		
		39	0.0050	0.0033		
		40	0.0046	0.0030		
		41	0.0040	0.0030		
		42	0.0042	0.0024		
		43	0.0030	0.0024		
		44	0.0038	0.0022		
		45	0.0020	0.0010		
		45 46	0.0039	0.0018		
			0.0041	0.0016		
		47 48	0.0043 0.0046	0.0014 0.0013		
		48 49	0.0046	0.0013		
		49	0.0049	0.0012		
		50	0.0052	0.0011		
		51	0.0055	0.0011		
		52	0.0060	0.0011		
		53	0.0071	0.0010		
		54	0.0082	0.0009		
		55	0.0093	0.0008		
		56	0.0104	0.0007		
		57	0.0114	0.0006		
		58	0.0114	0.0006		
		59	0.0114	0.0006		





Rates of Termination - Female

## Less than 10 Years of Employment

## 10 or more Years of Employment

Years of	Less than	At Least		With	Contribution
Employment	<u>Age 40</u>	<u>Age 40</u>	Age	<u>Benefit</u>	Refund
0	0.0761	0.0761	25	0.0228	0.0076
1	0.0658	0.0658	26	0.0228	0.0076
2	0.0577	0.0577	27	0.0228	0.0076
3	0.0668	0.0360	28	0.0228	0.0076
4	0.0653	0.0238	29	0.0228	0.0076
5	0.0615	0.0184			
6	0.0615	0.0165	30	0.0228	0.0076
7	0.0586	0.0165	31	0.0228	0.0076
8	0.0547	0.0127	32	0.0228	0.0076
9	0.0435	0.0108	33	0.0212	0.0071
			34	0.0196	0.0066
			35	0.0180	0.0061
			36	0.0164	0.0056
			37	0.0149	0.0050
			38	0.0132	0.0043
			39	0.0115	0.0036
			40	0.0098	0.0029
			41	0.0081	0.0022
			42	0.0066	0.0016
			43	0.0063	0.0015
			44	0.0060	0.0014
			45	0.0057	0.0013
			46	0.0054	0.0012
			47	0.0052	0.0009
			48	0.0056	0.0009
			49	0.0060	0.0009
			50	0.0064	0.0009
			51	0.0068	0.0009
			52	0.0072	0.0008
			53	0.0088	0.0008
			54	0.0104	0.0008
			55	0.0120	0.0008
			56	0.0136	0.0008
			57	0.0151	0.0008
			58	0.0151	0.0008
			59	0.0151	0.0008





#### Rates of Retirement - Male

	Less than		25 Years of vice
	25 Years	First	After First
Age	of Service	Eligibility	Eligibility
Less than 47	0.0110	N/A	N/A
48	0.0140	N/A	N/A
49	0.0160	N/A	N/A
50	0.0190	N/A	N/A
51	0.0230	N/A	N/A
52	0.0280	N/A	N/A
53	0.0280	N/A	N/A
54	0.0280	N/A	N/A
55	N/A	0.1500	N/A
56	N/A	0.1800	0.1200
57	N/A	0.1800	0.1300
58	N/A	0.2000	0.1400
59	N/A	0.2000	0.1500
60	0.1200	0.2200	0.2100
61	0.1200	0.2300	0.2300
62	0.1200	0.4000	0.3600
63	0.1200	0.4300	0.3000
64	0.1200	0.4300	0.3000
65	0.1700	0.4300	0.3800
66	0.1800	0.5000	0.3000
67	0.1800	0.5000	0.3000
68	0.1800	0.5000	0.3000
69	0.1800	0.5000	0.3000
70	0.1800	0.5000	0.3000
71 and older	0.2000	0.5000	0.3000





#### Rates of Retirement - Female

	Less than	More than 25 Y	Years of Service
	25 Years	First	After First
Age	of Service	Eligibility	Eligibility
Less than 47	0.0130	N/A	N/A
48	0.0150	N/A	N/A
49	0.0170	N/A	N/A
50	0.0200	N/A	N/A
51	0.0250	N/A	N/A
52	0.0300	N/A	N/A
53	0.0300	N/A	N/A
54	0.0300	N/A	N/A
55	N/A	0.1600	N/A
56	N/A	0.1900	0.1300
57	N/A	0.1900	0.1350
58	N/A	0.2000	0.1400
59	N/A	0.2000	0.1450
60	0.1000	0.3200	0.2000
61	0.1000	0.3400	0.2200
62	0.1000	0.4800	0.3200
63	0.1000	0.4500	0.2650
64	0.1000	0.4500	0.2650
65	0.2000	0.5700	0.3600
66	0.1600	0.5000	0.3000
67	0.1600	0.5000	0.3000
68	0.1600	0.5000	0.3000
69	0.1600	0.5000	0.3000
70	0.1600	0.5000	0.3000
71 and older	0.2000	0.5000	0.3000





## Rates of Disability

	Ordinary D	isability*	Accidental Disab	ility
Age	Male	<u>Female</u>	<u>Gender</u>	Proposed Rate
25	0.000301	0.000379	Male	0.00009
26	0.000313	0.000408	Female	0.00006
27	0.000326	0.000439		
28	0.000375	0.000476		
29	0.000424	0.000513		
30	0.000473	0.000550		
31	0.000522	0.000587		
32	0.000573	0.000626		
33	0.000585	0.000642		
34	0.000597	0.000658		
35	0.000609	0.000674		
36	0.000621	0.000690		
37	0.000635	0.000704		
38	0.000657	0.000767		
39	0.000679	0.000830		
40	0.000701	0.000893		
41	0.000723	0.000956		
42	0.000744	0.001020		
43	0.000837	0.001119		
44	0.000930	0.001218		
45	0.001022	0.001217		
45	0.001023	0.001317		
46 47	0.001116	0.001416		
48	0.001211 0.001281	0.001513 0.001595		
46 49	0.001281	0.001393		
49	0.001331	0.001077		
50	0.001421	0.001759		
51	0.001421	0.001737		
52	0.001491	0.001925		
53	0.002284	0.001723		
54	0.003008	0.002432		
. ·	3.005000	5.002717		
55	0.003732	0.003506		
56	0.004456	0.004033		
57	0.005178	0.004558		
58	0.005421	0.005254		
59	0.005664	0.005950		





## Rates of Disability

## Ordinary Disability\*

Age	Male	<u>Female</u>
60	0.005907	0.006646
61	0.006150	0.007342
62	0.006392	0.008039
63	0.007618	0.009177
64	0.008844	0.010315
65	0.010070	0.011453
66	0.011296	0.012591
67	0.012522	0.013730
68	0.012522	0.015590
69	0.012522	0.017450
70	0.012522	0.019310
71	0.012522	0.021170
72	0.012522	0.023030
73	0.012522	0.022140
74	0.012522	0.021250
75	0.012522	0.020360
76	0.012522	0.019470
77	0.012522	0.018580
78	0.012522	0.017690
79	0.012522	0.016800

 $<sup>\</sup>ast$  Assumption does not apply if have less than 10 years of service or have attained age 55 and 25 years of service





## Police and Firemen's Retirement System of New Jersey

	Disa					g <sub>y</sub> for ca									
		hility	IA							Dotiron	Retirement*				
		ibility			vv itilu	1 a w ai	5 - 9		< 21	21 - 24	ient ·	> 25			
			< 2 Yrs	2 Yrs	3 Yrs	4 Yrs	Yrs	> 9 Yrs	Yrs	Yrs	25 Yrs	Yrs			
AGE	Ordinary	Accidental	Service	Service	Service	Service	Service	Service	Service	Service	Service	Service			
19	0.00070	0.00021	0.02500	0.01910	0.01570	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
20	0.00070	0.00021	0.02500	0.01910	0.01570	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
21	0.00070	0.00021	0.02500	0.01910	0.01570	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
22	0.00070	0.00025	0.02500	0.01910	0.01570	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
23	0.00100	0.00025	0.03850	0.01910	0.01570	0.01740	0.00700	0.00000	0.00000	0.00000	0.00000	0.00000			
24	0.00100	0.00029	0.03850	0.01910	0.01570	0.01740	0.00700	0.00000	0.00000	0.00000	0.00000	0.00000			
25	0.00100	0.00029	0.03850	0.01910	0.01570	0.01740	0.00700	0.00000	0.00000	0.00000	0.00000	0.00000			
26	0.00100	0.00033	0.03850	0.01910	0.01570	0.01740	0.00700	0.00000	0.00000	0.00000	0.00000	0.00000			
27	0.00100	0.00037	0.03850	0.01910	0.01570	0.01740	0.00700	0.00000	0.00000	0.00000	0.00000	0.00000			
28	0.00165	0.00074	0.04400	0.02200	0.01760	0.01740	0.01080	0.00540	0.00000	0.00000	0.00000	0.00000			
29	0.00165	0.00089	0.04400	0.02200	0.01760	0.01740	0.01080	0.00540	0.00000	0.00000	0.00000	0.00000			
30	0.00165	0.00107	0.04400	0.02200	0.01760	0.01740	0.01080	0.00540	0.00000	0.00000	0.00000	0.00000			
31	0.00165	0.00122	0.04400	0.02200	0.01760	0.01740	0.01080	0.00540	0.00000	0.00000	0.00000	0.00000			
32	0.00165	0.00144	0.04400	0.02200	0.01760	0.01740	0.01080	0.00540	0.00000	0.00000	0.00000	0.00000			
33	0.00300	0.00156	0.04500	0.02250	0.01760	0.01740	0.01280	0.00310	0.00000	0.00000	0.00000	0.00000			
34	0.00300	0.00173	0.04500	0.02250	0.01760	0.01740	0.01280	0.00310	0.00000	0.00000	0.00000	0.00000			
35	0.00300	0.00183	0.04500	0.02250	0.01760	0.01740	0.01280	0.00310	0.00000	0.00000	0.00000	0.00000			
36	0.00300	0.00195	0.04500	0.02250	0.01760	0.01740	0.01280	0.00310	0.00000	0.00000	0.00000	0.00000			
37	0.00300	0.00206	0.04500	0.02250	0.01760	0.01740	0.01280	0.00310	0.00000	0.00000	0.00000	0.00000			
38	0.00462	0.00210	0.05000	0.02250	0.01850	0.02320	0.01500	0.00320	0.00000	0.00000	0.00000	0.00000			
39	0.00462	0.00221	0.05000	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.49200	0.15400			
40	0.00462	0.00230	0.05000	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.49200	0.15400			
41	0.00462	0.00234	0.05000	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.41630	0.15400			
42	0.00462	0.00239	0.05000	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.42260	0.15400			
43	0.00502	0.00239	0.03500	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.51470	0.15400			
44	0.00502	0.00233	0.03500	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.52220	0.15400			
45	0.00502	0.00227	0.03500	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.52980	0.15400			
46	0.00502	0.00215	0.03500	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.53740	0.15400			
47	0.00502	0.00207	0.03500	0.02250	0.01850	0.02320	0.01500	0.00320	0.02500	0.00000	0.54500	0.15400			





## Police and Firemen's Retirement System of New Jersey

						q <sub>x</sub> for ca	nuse:						
	Disa	bility		Withdrawal						Retirement*			
			< 2 Yrs	2 Yrs	3 Yrs	4 Yrs	5 - 9 Yrs	> 9 Yrs	< 21 Yrs	21 - 24 Yrs	25 Yrs	> 25 Yrs	
AGE	Ordinary	Accidental	Service	Service	Service	Service	Service	Service	Service	Service	Service	Service	
48	0.00545	0.00197	0.00000	0.02250	0.01850	0.02000	0.02000	0.00300	0.03750	0.00000	0.55260	0.15400	
49	0.00545	0.00191	0.00000	0.02250	0.01850	0.02000	0.02000	0.00300	0.03750	0.00000	0.56020	0.15400	
50	0.00545	0.00179	0.00000	0.02250	0.01850	0.02000	0.02000	0.00300	0.03750	0.00000	0.56770	0.15400	
51	0.00545	0.00173	0.00000	0.02250	0.01850	0.02000	0.02000	0.00300	0.03750	0.00000	0.57530	0.15400	
52	0.00545	0.00168	0.00000	0.02250	0.01850	0.02000	0.02000	0.00300	0.03750	0.00000	0.58280	0.15400	
53	0.00660	0.00161	0.00000	0.02250	0.01850	0.01000	0.02000	0.00300	0.05000	0.00000	0.59040	0.17480	
54	0.00594	0.00161	0.00000	0.02250	0.01850	0.01000	0.02000	0.00300	0.05000	0.00000	0.59040	0.17480	
55	0.00900	0.00161	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.59040	0.17480	
56	0.00900	0.00161	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.66420	0.17480	
57	0.00800	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.77490	0.17480	
58	0.00800	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.77490	0.17480	
59	0.00800	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.77490	0.22780	
60	0.01600	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.77490	0.22780	
61	0.01800	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04250	0.00000	0.77490	0.22780	
62	0.01800	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.12750	0.00000	0.77490	0.22780	
63	0.02700	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.12750	0.00000	0.77490	0.22780	
64	0.03000	0.00107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.37500	0.00000	0.77490	0.37800	
65	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	

<sup>\*</sup> Ultimate retirement at age 65.



## GASB OPEB Summary

The Government Accounting Standards Board (GASB) has issued Statements No. 43 and 45 for the recognition and disclosure for public entities sponsoring other (than pensions) post-retirement benefit plans.

This Exhibit summarizes pertinent issues from the above statements, contrasts them to SFAS 106. and includes comments about GASB's OPEB standard.

### Why Pay-As-You-Go Accounting Will Be Unacceptable

The GASB believes, like the FASB, that other post-retirement benefits, like pensions, are a form of deferred compensation. Accordingly, GASB is saying these benefits should be recognized (in an organization's financial statement) when earned by employees, rather than when paid out. Under SFAS 106, pay-as-you-go accounting is replaced with accrual accounting for these benefits. *This approach is similar to (although more restrictive than) GASB's approach under Statements No. 43 and 45.* 

#### **Allocating Costs (Attribution)**

The FASB defines attribution as the process of assigning other post-retirement benefit cost to periods of employee service. SFAS 106 specifies how (the attribution method) and over what accounting periods (the attribution period) the postretirement benefits promise must be allocated.

The attribution (actuarial cost) method specified by SFAS 106 is the "projected unit credit actuarial cost method". This method attributes an equal amount of the total postretirement benefit to each year of service during the "attribution period".

The attribution period is the period over which the total postretirement benefit is earned. Unless the plan states that post-retirement benefits are not earned until a later date, the attribution period is from the employee's hire date until the employee is first eligible for the benefit. *The GASB Statements do not restrict entities to a single attribution method, but instead allows sponsors (and actuaries) to choose from several acceptable methods (similar to GASB 27)*. GASB allows six funding methods and also allows attribution to the expected retirement age rather than the earliest eligibility age.





# GASB OPEB Summary (continued)

## **Defining the Plan**

SFAS 106 refers to the substantive plan as the basis for accounting. The substantive plan may differ from the written plan in that it reflects the employer's cost sharing policy based on past practice or communication of intended changes, or a past practice of cost increases in monetary benefits. Under SFAS 106, the substantive plan is the basis for allowing recognition of potential future changes to the plan. GASB follows FASB's lead on this issue, requiring entities to recognize the underlying promise, not just the written plan.

One GASB requirement relates to the implied subsidy when retirees participate in the active healthcare plan, but are charged a rate based on composite active and retiree experience. Under the GASB standard, even if an organization does not otherwise subsidize the benefit, then the organization will have to recognize an OPEB obligation for the implied subsidy.

## **Actuarial Assumptions**

SFAS 106 says actuarial assumptions should be explicit. This means each individual assumption should represent the actuary's best estimate. GASB also, generally, requires explicit assumptions.

GASB requires the discount rate be based on the source of funds used to pay the benefits. This means the underlying expected long-term rate of return on plan assets for funded plans. However, since the source of funds for unfunded plans is usually the organization's general fund, and organizations are usually restricted by State law as to what investments they can have in their general fund, unfunded plans will need to use a relatively low discount rate.

#### **Retiree Drug Subsidy Accounting**

GASB Technical Bulletin No. 2006-1 sets forth the proper accounting treatment for the Retiree Drug Subsidy payment available to plan sponsors that maintain an actuarially equivalent (to Medicare Part D) prescription drug plan. The RDS payment is after the fact, premised on data submission and a host of other compliance issues. According to TB 2006-1, the RDS payment is a voluntary non-exchange transaction, as defined in GASB 33. As such, employers and plans should not reduce the liability for OPEB benefits by the expected RDS payments but instead include the RDS payments in the schedule of contributions from employers and other contributing entities.





# GASB OPEB Summary (continued)

## **Transition Issues**

Because historical annual required contribution information will rarely be available, *GASB* is taking a prospective approach on transition issues. This means there will be no requirement for any initial transition obligation.

## **Effective Dates**

The GASB 43 standard will have staggered effective dates, similar to GASB Statement No. 34, as follows:

	Annual Revenue	Effective for Fiscal Years Beginning After
Phase I	$\geq$ \$100 million	December 15, 2005
Phase II	$\geq$ \$10 million but $<$ \$100 million	December 15, 2006
Phase III	< \$10 million	December 15, 2007





# GASB OPEB Summary (continued)

# Differences Between SFAS 106 and GASB 43 and 45

Conceptually, GASB No. 43 and 45 are similar to SFAS 106. They require current recognition of the promise to pay future benefits. However, they differ somewhat in how that recognition should occur. Specifically:

		SFAS 106	GASB 43 and 45
(1)	Attribution Method	Mandates use of a particular method, regardless of method used to determine contribution.	Allows sponsor to use same method used to determine contribution, provided it meets certain criteria.
(2)	Assumptions (excluding discount rate)	Requires each assumption stand on its own – Explicit assumptions.	Requires each assumption stand on its own and, in addition, meet certain other criteria.
(3)	Discount Rate	Long term high quality bond rates (e.g., Moody Aa).	Expected long-term rate of return on source used to pay benefits (e.g. sponsor's general fund).
(4)	Benefit Cost	Mandates use of a specific method, regardless of method used to determine contribution.	Provides that if entity always contributes Annual Required Contribution, then benefit cost equals Annual Required Contribution. If entity does not contribute Annual Required Contribution, then benefit cost equals Annual Required Contribution, adjusted for the difference.
(5)	Annual Required Contribution	N/A	The Plan's funding contribution, with actuarial assumptions and methods (including amortization periods) restricted as indicated above.
(6)	Liability Recognition	The historical difference between actual contributions and benefit costs become an accrued liability (or prepaid asset) on the sponsor's financial statement.	If sponsor consistently contributes the Annual Required Contribution, then no recognition is required. However, if sponsor has not historically contributed the Annual Required Contribution, then difference becomes a Net Obligation on the sponsor's financial statement.





## Glossary

## **Actuarial accrued liability**

That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Normal Costs.

### **Actuarial assumptions**

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement and retirement; changes in compensation and Government provided pension benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other relevant items.

#### Actuarial cost method

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.

## Actuarial experience gain or loss

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

## Actuarial present value of total projected benefits

Total projected benefits include all benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members) as a result of their service through the valuation date and their expected future service. The actuarial present value of total projected benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment. Expressed another way, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay total projected benefits when due.

#### **Actuarial valuation**

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

#### **Actuarial valuation date**

The date as of which an actuarial valuation is performed.





#### **Actuarial value of assets**

The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an Actuarial Valuation.

## **Amortization (of unfunded actuarial accrued liability)**

The portion of the pension plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability or the Unfunded Frozen Actuarial Accrued Liability.

#### **Annual OPEB cost**

An accrual-basis measure of the periodic cost of an employer's participation in a defined benefit OPEB plan.

## Annual required contributions of the employer (ARC)

The employer's periodic required contributions to a defined benefit OPEB plan.

## **Covered Group**

Plan members included in an actuarial valuation.

## Defined benefit OPEB plan

An OPEB plan having terms that specify the benefits to be provided at or after separation from employment. The benefits may be specified in dollars (for example, a flat dollar payment or an amount based on one or more factors such as age, years of service, and compensation), or as a type or level of coverage (for example, prescription drugs or a percentage of healthcare insurance premiums).





## **Employer's contributions**

Contributions made in relation to the annual required contributions of the employer (ARC). An employer has made a contribution in relation to the ARC if the employer has (a) made payments of benefits directly to or on behalf of a retiree or beneficiary, (b) made premium payments to an insurer, or (c) irrevocably transferred assets to a trust, or equivalent arrangement, in which plan assets are dedicated to providing benefits to retirees and their beneficiaries in accordance with the terms of the plan and are legally protected from creditors of the employer(s) of plan administrator. Employer's contributions *do not equate* to benefits paid.

#### **Funded ratio**

The actuarial value of assets expressed as a percentage of the actuarial accrued liability.

#### **Funding excess**

The excess of the actuarial value of assets over the actuarial accrued liability.

## **Funding policy**

The program for the amounts and timing of contributions to be made by plan members, employer(s), and other contributing entities (for example, state government contributions to a local government plan) to provide the benefits specified by an OPEB plan.

#### Healthcare cost trend rate

The rate of change in per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

#### **Inactives**

Certain former employees with a minimum amount of years of credible service who have left contributions in the state retirement system.

## **Implicit Rate Subsidy**

The actuarially derived amount that current employees subsidize retiree benefits.

## **Investment return assumption (discount rate)**

The rate used to adjust a series of future payments to reflect the time value of money.

## Level percentage of projected payroll amortization method

Amortization payments are calculated so that they are a constant percentage of the projected payroll of active plan members over a given number of years. The dollar amount of the payments generally will increase over time as payroll increases due to inflation; in dollars adjusted for inflation, the payments can be expected to remain level.





# Market-related value of plan assets

A term used with reference to the actuarial value of assets. A market related value may be fair value, market value (or estimated market value), or a calculated value that recognizes changes in fair or market value over a period of, for example, three to five years.

## **Net OPEB obligation**

The cumulative difference since the effective date of this Statement between annual OPEB cost and the employer's contributions to the plan, including the OPEB liability (asset) at transition, if any, and excluding (a) short-term differences and (b) unpaid contributions that have been converted to OPEB-related debt.

#### Normal cost

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method. In GASB 45, the term refers to employer normal cost.

#### **OPEB** assets

The amount recognized by an employer for contributions to an OPEB plan greater than OPEB expense.

## **OPEB** expenditures

The amount recognized by an employer in each accounting period for contributions to an OPEB plan on the modified accrual basis of accounting.

## **OPEB** expense

The amount recognized by an employer in each accounting period for contributions to an OPEB plan on the accrual basis of accounting.

#### **OPEB** liabilities

The amount recognized by an employer for contributions to an OPEB plan less than OPEB expense/expenditures.

## Other postemployment benefits

Postemployment benefits other than pension benefits. Other postemployment benefits (OPEB) include postemployment healthcare benefits, regardless of the type of plan that provides them, and all postemployment benefits provided separately from a pension plan, excluding benefits defined as termination offers and benefits.

#### Pay-as-you-go

A method of financing a pension plan under which the contributions to the plan are generally made at about the same time and in about the same amount as benefit payments and expenses becoming due.





#### Plan assets

Resources, usually in the form of stocks, bonds, and other classes of investments, that have been segregated and restricted in a trust, or equivalent arrangement, in which (a) employer contributions to the plan are irrevocable, (b) assets are dedicated to providing benefits to retirees and their beneficiaries, (c) assets are legally protected from creditors of the employers or plan administrator, for the payment of benefits in accordance with the terms of the plan.

#### Plan members

The individuals covered by the terms of an OPEB plan. The plan membership generally includes employees in active service, terminated employees who have accumulated benefits but are not yet receiving them, and retired employees and beneficiaries currently receiving benefits.

## **Postemployment**

The period between termination of employment and retirement as well as the period after retirement.

## Postemployment healthcare benefits

Medical, dental, vision, and other health-related benefits provided to terminated or retired employees and their dependents and beneficiaries.

#### Postretirement benefit increase

An increase in the benefits of retirees or beneficiaries granted to compensate for the effects of inflation (cost-of-living adjustment) or for other reasons. Ad hoc increases may be granted periodically by a decision of the board of trustees, legislature, or other authoritative body; both the decision to grant an increase and the amount of the increase are discretionary. Automatic increases are periodic increases specified in the terms of the plan; they are nondiscretionary except to the extent that the plan terms can be changed.

## Projected unit credit actuarial cost method

A method under which the benefits (projected or unprojected) of each individual included in an Actuarial Valuation are allocated by a consistent formula to valuation years. The Actuarial Present Value of benefits allocated to a valuation year is called the Normal Cost. The Actuarial Present Value of benefits allocated to all periods prior to a valuation year is called the Actuarial Accrued Liability.

Under this method, the Actuarial Gains (losses), as they occur, generally reduce (increase) the Unfunded Actuarial Accrued Liability.

Under this method, benefits are projected to all future points in time under the terms of the Plan and actuarial assumptions (for example, health trends). Retirees are considered to be fully attributed in their benefits. For actives, attribution is to expected retirement age; thus, benefits at each future point in time are allocated to past service based on a prorate of service-to-date over projected service.

## Required supplementary information (RSI)





Schedules, statistical data, and other information that are an essential part of financial reporting and should be presented with, but are not part of, the basic financial statements of a governmental entity.

## Single-employer plan

A plan that covers the current and former employees, including beneficiaries, of only one employer.

## **Sponsor**

The entity that established the plan. The sponsor generally is the employer or one of the employers that participate in the plan to provide benefits for their employees. Sometimes, however, the sponsor establishes the plan for the employees of other entities but does not include its own employees and, therefore, is not a participating employer of that plan. An example is a state government that establishes a plan for the employees of local governments within the state, but the employees of the state government are covered by a different plan.

## **Substantive plan**

The terms of an OPEB plan as understood by the employer(s) and plan members.

## **Transition year**

The fiscal year in which this Statement is first implemented.

## **Unfunded actuarial accrued liability (unfunded actuarial liability)**

The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

